HUBBELL HUBBELL Lighting

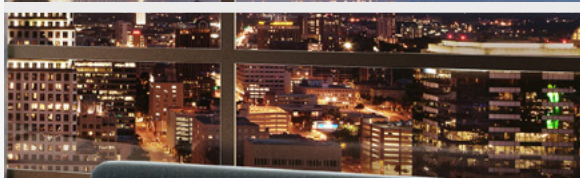# REMEDI™

LED Multi-function Bed Light

PATIENT ROOMS

EXAMINATION ROOMS

PRE- AND POST-OP AREAS

PHYSICIAN'S OFFICES

CLINICS

Remedi blends architectural aesthetics with leading performance. The design responds to the needs of the patient, healthcare professional and facility team. Four independent optical compartments provide ambient, reading, examination and night lighting – all while controlling visual comfort. The variety of features and options provide flexibility to tailor the final solution to the individual needs of the space.
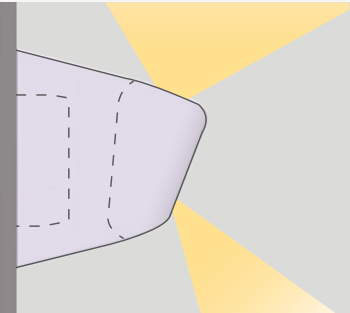
MULTI-FUNCTION PERFORMANCE

AMBIENT
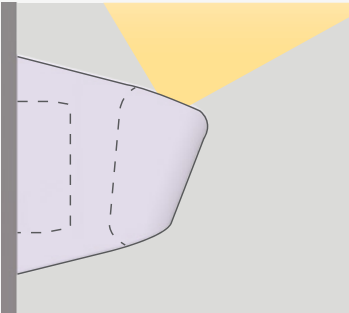
Remedi's indirect ambient compartment provides soft general illumination for the patient while delivering over 10 avg. footcandles over a 12' x 12' area.
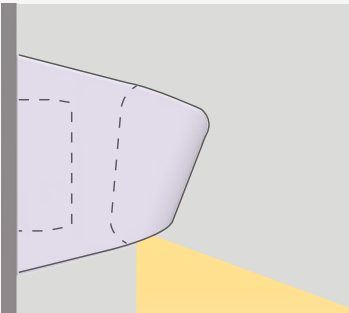
EXAM

The examination solution meets the highest recommendations for illumination level (100 fc) and uniformity (5:1 max:min) without the need to mechanically adjust the luminaire housing.
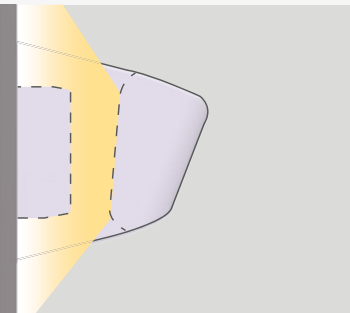
READING

The reading compartment directs light at both the horizontal and inclined reading planes with illumination levels exceeding the recommended values and with excellent uniformity across the target area.

NIGHT LIGHT

Remedi's unique form allows for an optional full-length, indirect night light solution. With the 3-way switch option, On/Off and light level control is possible offering greater flexibility for the patient and healthcare provider.

NiteWay™
LED Patient Room Night Light

NiteWay night lights can be used to supplement night illumination at the floor plane for additional patient safety. The aesthetics, construction and finishes are coordinated with Remedi to provide a unified room appearance.
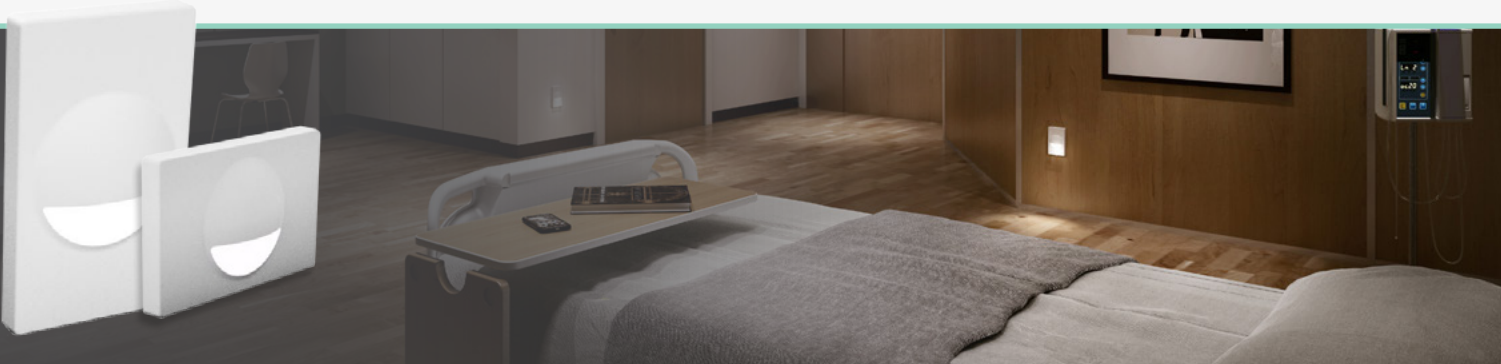
KEY FEATURES

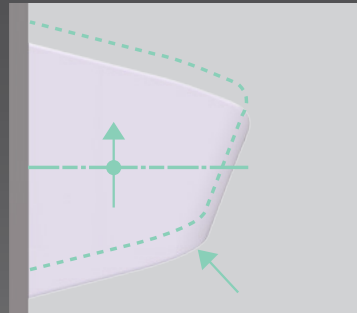Remedi's four independent optical compartments allow for a wide range of illumination functions that meet performance requirements and are sensitive to visual comfort.

Remedi has a variety of switching options including pull switches with antimicrobial cords and integral low voltage controller options for use with patient pillow controls.

The optional Bed Safety Switch reduces the risk of damage from motorized hospital beds.
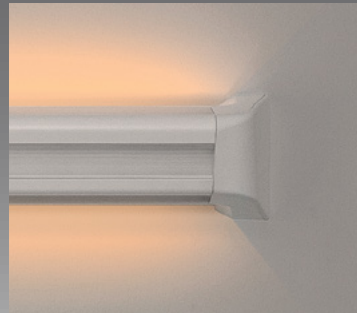
The integral night light option is available with 3-way, low-profile, stainless steel switches that provide On/Off and light level control.
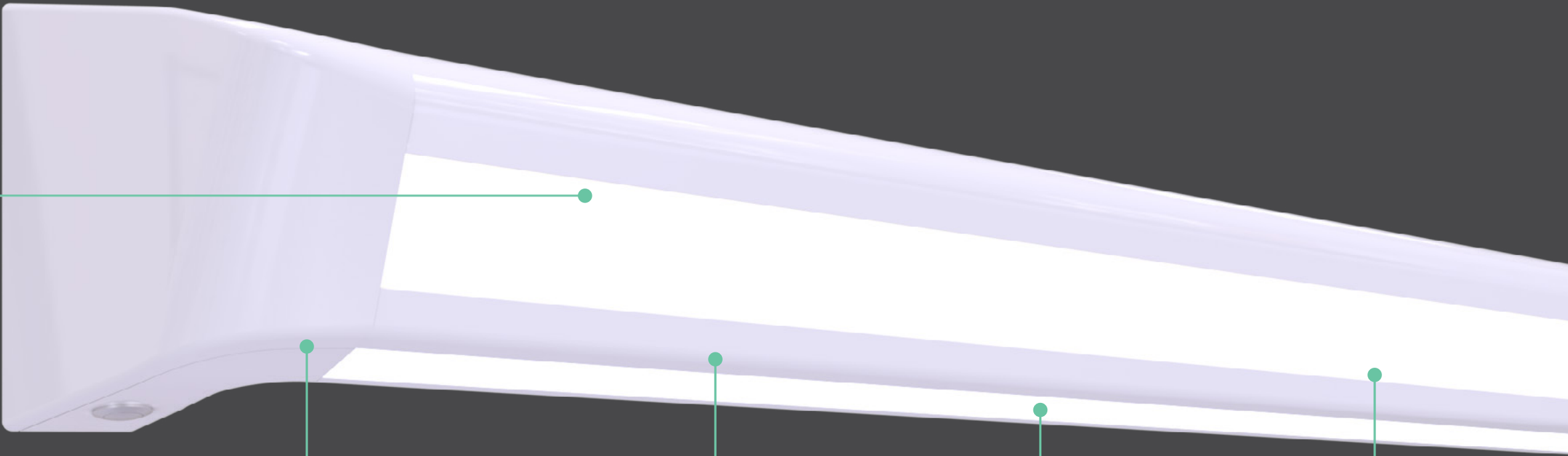
The die cast end caps and extruded aluminum construction provides durability.

With numerous time-saving details, Remedi's installation is straight-forward and simple.

The acrylic lenses utilize internal linear prisms for light control and retain a smooth outward face for ease of cleaning.

Available in four color temperatures (3000K, 3500K, 4000K and 5000K) with either a > 80 or > 90 CRI.
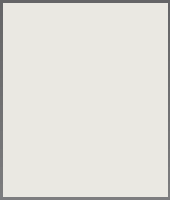
Remedi's unique form eliminates the need to mechanically manipulate the luminaire housing to access the various illumination functions.
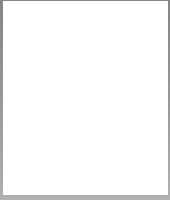
Remedi can be specified in three standard antimicrobial colors – with custom colors available upon request.
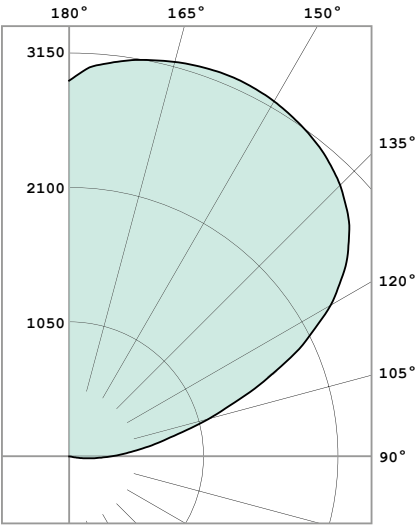
Aluminum

Taupe
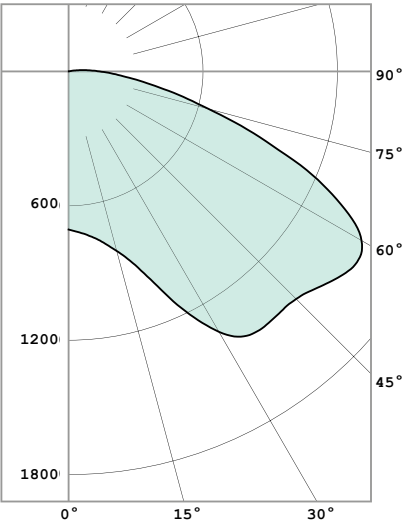
White

CANDELA PLOTS & APPLICATION STUDIES

ROOM PARAMETERS FOR APPLICATION STUDIES

Room Size	12'-0" X 12'-0"
Ceiling Height	9'-0"
Luminaire Height	Centered 6'-3" AFF
Bed Height	3'-0" AFF
Room Reflectances	80/50/20

AMBIENT

Report No.	#17.02115
Luminaire	Ambient
Mode Driver	1 - Osram
Lamp	196 - Nichia 3500K 90 CRI LEDs
Fixture Lumens	7629
Watts	82.5 W
Efficacy	92.5 Lm/W

READING

Report No.	#17.02116
Luminaire	Reading
Mode Driver	1 - Osram
Lamp	196 - Nichia 3500K 90 CRI LEDs
Fixture Lumens	3107
Watts	34.5 W
Efficacy	90.1 Lm/W
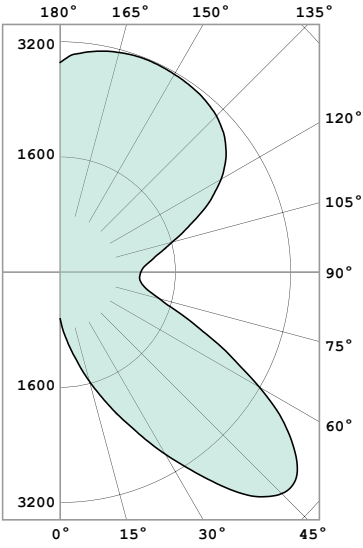
EXAM

Report No.	#17.02235
Luminaire	Exam
Mode Driver	2 - Osram
Lamp	392 - Nichia 3500K 90 CRI LEDs
Fixture Lumens	13227
Watts	150.3
Efficacy	88.0 Lm/W
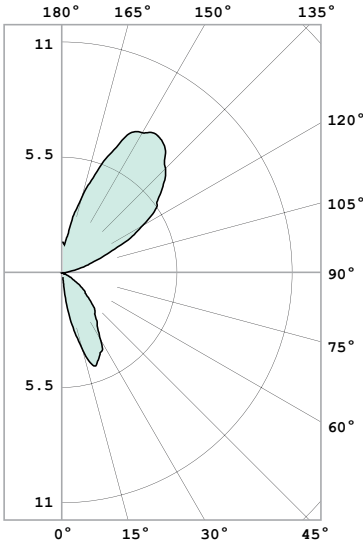
NIGHT LIGHT

Report No.	#17.02118
Luminaire	Night Light (Amber)
Mode Driver	1 - Hubbell
Lamp	16 - Lumileds Luxeon 590nm LEDs
Fixture Lumens	35
Watts	1.9 W
Efficacy	18.8 Lm/W

See Remedi Performance Chart on the following page for full data on >80 and >90 CRI models.

AMBIENT ILLUMINATION

11	13	14	13	9.8		10	14	14	13	12
13	15	15	13	3.2		3.3	13	16	14	12
13	14	16	13	4.1		4.2	14	15	15	13
14	15	16	14	4.8		4.9	13	16	15	13
13	14	15	13	4.9		4.9	13	15	14	12
12	13	14	12	4.6		4.7	13	14	14	12
11	12	13	12	4.7		4.6	11	13	12	11
10	11	12	11	6.6	3.3	3.3	6.5	11	11	12	10
9.3	10	11	10	7.4	5.3	5.3	7.3	9.8	11	10	9.9
8.5	9.4	9.9	9.6	8.3	7.7	7.9	8.2	9.6	10	9.3	8.4
7.6	8.6	9.1	9.1	9.2	9.3	9.1	9.3	9.3	8.8	8.8	7.8
7.0	7.5	8.0	8.6	8.5	8.6	8.7	8.4	8.1	7.8	7.7	6.7

Avg. Illuminance: 11.0 fc (>90 CRI)
Uniformity (Avg:Min): 1.83:1

EXAM ILLUMINATION

95	103	105	107	103	94
121	131	137	138	132	121
141	151	158	158	151	139
150	161	168	167	160	148
144	154	160	160	153	142
125	133	138	139	134	126
103	108	112	112	109	104
82	86	88	88	87	84
65	68	69	69	68	66
53	55	57	57	55	53
44	46	46	46	46	44
37	38	39	39	39	37

Avg. Illuminance: 102.0 fc (>90 CRI)
Uniformity (Max:Min): 4.84:1
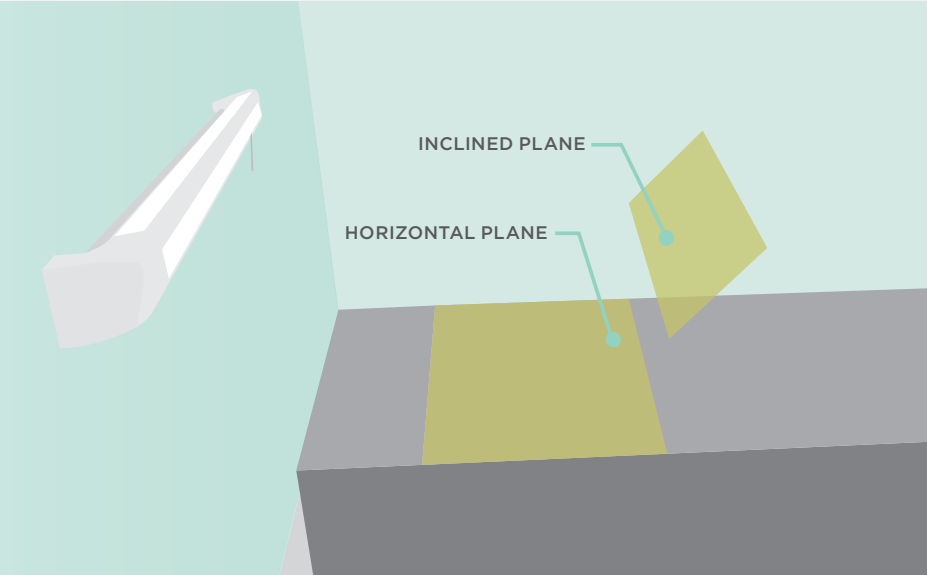
Position and size of reading planes per ANSI/IES RP-29-16, "Lighting for Hospitals and Healthcare Facilities."

READING ILLUMINATION INCLINED PLANE (1'x3')

45	47	49	50	48	44
52	57	59	59	57	53
57	62	64	65	62	57

Avg. Illuminance: 55 fc (>90 CRI)
Uniformity (Avg:Min): 1.17:1

READING ILLUMINATION HORIZONTAL PLANE (2'x3')

44	49	51	51	48	44
46	50	53	53	50	46
45	49	51	51	49	45
42	45	47	47	45	42
38	40	42	42	40	38
34	36	37	37	36	34

Avg. Illuminance: 45 fc (>90 CRI)
Uniformity (Avg:Min): 1.25:1

PRODUCT SPECIFICATIONS

LUMINAIRE FUNCTION

- Remedi provides three standard functions (ambient, reading and examination) and an optional fourth function (night light) for the patient bed environment.
- Each function has a dedicated optical compartment.
- The exam function automatically adds the ambient compartment to enhance the overall performance and to reduce the impact of shadowing. The ambient function will automatically return to its previous state once the exam function is turned off.

LUMINAIRE CONSTRUCTION

- The housing is constructed of die-cast end caps and extruded aluminum body.
- Two-part end cap design allows for hidden mounting of the optical housing to the back plate and access to wiring connectors.
- The back plate is formed from 16-gauge galvanized steel.
- The two-part wire way cover is formed from 20 gauge CRS and is designed to interconnect for rigidity.

FINISH

- Remedi is available in three standard polyester powder coat finishes – White, Taupe and Aluminum.
- All standard finishes are antimicrobial to help inhibit the growth of microbes on the luminaire surface.
- Custom colors are available upon request. A color-chip to match from the customer is required and custom colors will have extended lead time and set-up charges.

LENSES AND OPTICS

- Each optical compartment has an acrylic lens with DR additive.
- Prisms are all internal, leaving a smooth face on the room side for easy wipe-down.
- Exam compartment utilizes a custom, acrylic molded linear optic.

LIGHT SOURCE

- LED source is available in 3000K, 3500K, 4000K and 5000K CCTs for the ambient, reading and exam compartments with CRIs of either > 80 or > 90 with R9 value of > 64.
- Night light compartment can be selected with white (3000K) or amber (590nm) LEDs.
- LEDs offer >60,000 hours of life at L80.
- All boards have quick disconnect plugs and can be replaced in the field.

ELECTRICAL

- Individual, universal voltage drivers (120-277V, 50/60 Hz) are provided for each optical compartment. Some options require a specific voltage to be specified.
- Removable gear plates allow simple replacement of all electrical components.

SWITCHING

- Single- and four-pole pull switches are available for 120V applications. The single-pole option controls the reading compartment. The four-pole option provides sequential control of the ambient and reading compartments. Pull switches are provided with an antimicrobial plastic pull cord.
- Integral low voltage controller (LVC) is available to provide control interface between one, two or three functions and a patient pillow switch (by others) through the facility's nurse call system. Independent, sequential and dimming control is available with the LVC options.
- The night light option can be controlled with a wall switch (by others), through the LVC, or with the optional 3-way, low-profile, stainless steel switches on the luminaire. The 3-way switches provide momentary On/Off control or light level control with a sustained push.
- The optional Bed Safety Switch (BSS) reduces the potential for luminaire damage from movement of motorized patient beds.

INSTALLATION

- The back plate is mounted over the electrical junction box and secured to the wall structure or with wall anchors. The housing latches onto the back plate and is secured with fasteners.
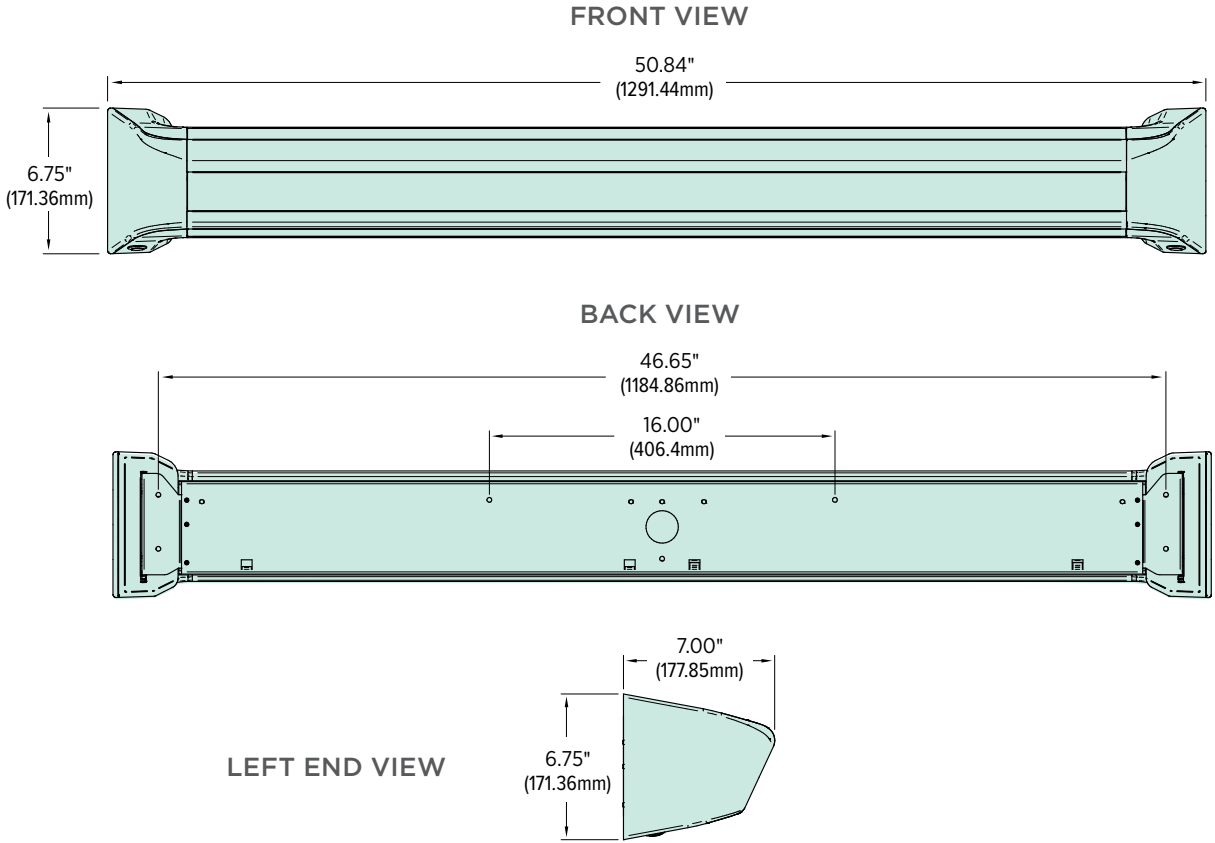
CERTIFICATIONS

- Built and tested to UL 1598 standard and bears the cCSAus label for Damp Locations.

WARRANTY

- 5-year limited warranty.

REMEDI PERFORMANCE CHART

	CRI	AVG. ILLUMINANCE (footcandles)	UNIFORMITY	POWER (W)	EFFICACY (lm/W)	IESNA RECOMMENDED TARGETS			
						AVG. ILLUMINACE (footcandles)			UNIFORMITY
						AGE OF USER (yrs.)			
						<25	25-65	>65	
Ambient	> 80	13.3	1.83:1 (Avg:Min)	82.5	112.0	2.5	5.0	10.0	4:1 (Avg:Min)
	> 90	11.0			92.5				
Reading-Horizontal	> 80	53.9	1.25:1 (Avg:Min)	34.5	108.7	10.0	20.0	40.0	3:1 (Avg:Min)
	> 90	44.6			90.1				
Reading-Inclined	> 80	66.4	1.17:1 (Avg:Min)	34.5	108.7	10.0	20.0	40.0	3:1 (Avg:Min)
	> 90	55.0			90.1				
Exam	> 80	123.1	4.84:1 (Max:Min)	150.3	106.0	25	50	100	5:1 (Max:Min)
	> 90	102.0			88.0				

DIMENSIONS

FRONT VIEW

50.84" (1291.44mm)

6.75" (171.36mm)

BACK VIEW

46.65" (1184.86mm)

16.00" (406.4mm)

LEFT END VIEW

7.00" (177.85mm)

6.75" (171.36mm)

ORDERING GUIDE

EXAMPLE: RBL-4-9-35K-WH-120-NAS-LVC21

MODEL	LENGTH	CRI	COLOR TEMP	FINISH	VOLTAGE	OPTIONS	
RBL Remedi Bed Light	**4** 4' (nom.)	**8** > 80 CRI	**30K** 3000K	**WH** White	**U** Universal (120-277V)	**NW**	Night light white (3000K), (Switch provided by Others)
		9 > 90 CRI	**35K** 3500K	**AL** Aluminum	**120** 120V	**NA**	Night light amber (590nm), (Switch provided by Others)
			40K 4000K	**TP** Taupe	**277** 277V	**NWS**[2,3]	Night light white (3000K) with 3-way momentary switches located at both ends of the luminaire
			50K 5000K	**CC**[1] Custom Color		**NAS**[2,3]	Night light amber (590nm) with 3-way momentary switches located at both ends of the luminaire
						P4L[4,5]	4-Pole Pull Switch (mounted to the left as facing the luminaire)
						P4R[4,5]	4-Pole Pull Switch (mounted to the right as facing the luminaire)
						P1L[4,5]	1-Pole Pull Switch for control of the lower compartment (mounted to the left side as facing the luminaire)
						P1R[4,5]	1-Pole Pull Switch for control of the lower compartment (mounted to the right side as facing the luminaire)
						LVC1[6,7]	Low Voltage Controller for individual control of the reading function.
						LVC2__[6,7]	Low Voltage Controller for individual or sequential control of two (2) independent functions. Use LVC Selection Chart found on product specification sheet to complete ordering code. (Ex. LVC21, LVC22)
						LVC3__[7,8]	Low Voltage Controller for individual control of three (3) functions or sequential control of two (2) functions and individual control of one (1) function. Use LVC Selection Chart found on product specification sheet to complete ordering code. (Ex. LVC31, LVC32)
						LVCD__[7,8]	Low voltage controller for up to three (3) functions with one (1) or two (2) functions having 0-10v dimming and the remaining function(s) being controlled independently. Use LVC Selection Chart found on product specification sheet to complete ordering code. (Ex. LVCDST1, LVCDSM4)
						BSS[4,9]	Bed Safety Switch
						GMF	Slow blow fuse

1 Customer to provide RAL number or color chip to match. Additional set-up charges will be applied to the order.

2 Not available if LVC22 or LVC23 option selected.

3 Switch provides On/Off with momentary push and increase/decrease of light level with sustained push.

4 120V models only.

5 Supplied with 5' plastic, antimicrobial white pull cord.

6 Not available with Universal voltage (U). Select 120V or 277V.

7 Not available with Pull Switch options (P4L, P4R, P1L, P1R).

8 Confirm that the facility's nurse call system supports (3) dry-contact connections for lighting when the intent is to control (3) different lighting functions.

9 The Bed Safety Switch (BSS) helps limit damage to luminaire by disconnecting power to motorized patient bed when luminaire is moved.

Healthcare Solutions