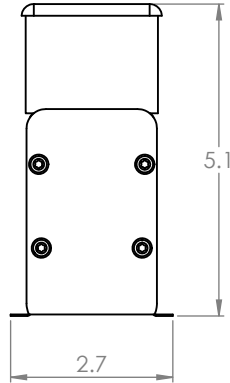


Project		Part Num		Prepared By	
Type		Notes		Date	



Product Features

- 2" Linear Recessed Direct LED Luminaire
- PERFEKTLight Technology
- Full spectrum and circadian influential
- Tunable white and multiple color temperature options
- PERFEKTDay Control or 0-10V dimming
- Flicker Free



Ordering Information

Sample Part Number: PB2R-0409TG-515952760-074DW-PDIW-120I

Product ID		Length		Ceiling Type		Output		CRI / CCT					
PB2R	PERFEKTBeam2 Recessed Direct LED	04	4ft Nominal	09TG	9/16" T-Grid	515	515 lm/ft ¹	952760	95+ CRI, 2700K to 6000K Tunable White				
		08	8ft Nominal	15TG	15/16" T-Grid	775	775 lm/ft ²	902760	90+ CRI, 2700K to 6000K Tunable White				
		C__	Continuous run of xx feet						900	80+ CRI, 2700K to 6000K Tunable White			
									1000	80+ CRI, 2000K to 6000K Tunable White			
									9027	90+ CRI, 2700K			
									9030	90+ CRI, 3000K			
									9035	90+ CRI, 3500K			
									9040	90+ CRI, 4000K			
									9050	90+ CRI, 5000K			
									8027	80+ CRI, 2700K			
									8030	80+ CRI, 3000K			
									8035	80+ CRI, 3500K			
									8040	80+ CRI, 4000K			
8050	80+ CRI, 5000K												
		Custom lengths available upon request.	Additional ceiling options available upon request.		¹ Only for 95+ CRI ² Only for 90+ CRI 2700K to 6000K ³ For 80+ CRI 2700K to 6000K and 80+ CRI 2000K to 6000K ⁴ Only for Monochromatic Custom outputs available upon request.		Custom CRI and CCT options available upon request. Tunable White options provide color temperate adjustment between 2700K to 6000K or 2000K to 6000K. Can be used with the PERFEKTDay Controller or two 0-10V controls, one for color temperature, one for brightness.						

Angle		Lens		Finish		Control		PDC Position		PDC Interface		Voltage		Power Supply	
074	74° FWHM ⁵	D	Diffused	A	Aluminum	PD	PERFEKTDay Controller	I	Internal	W	Wired	120	120V	I	Internal
						2V	0-10V x two channels	E	External	B	Bluetooth ⁷	277	277V	E	External
						1V	0-10V x one channel ⁶								
5 Additional viewing angles available upon request.				Custom finishes available upon request.		6 Monochromatic only				7 Only available with PERFEKTDay Controller		Other voltages available upon request			

Ordering Information Continued

Accessory	
Blank	None
DD	Dual Dimmer
OS	Occupancy Sensor
DS	Daylight Sensor
DO	Daylight & Occupancy Sensor

Separate accessory options with a (-)

Product Specifications

Construction

Housing extruded from 6063 aluminum
Aluminum finish additional finishes available, contact factory

Endcaps machined from aluminum

Lenses precision cut from Acrylic QMFZ2

Light Engines

Choice of monochromatic 2700K, 3000K, 3500K, 4000K, and 5000K

Choice of tunable white 2700K to 6000K or 2000K to 6000K

CRI options for tunable white and monochromatic in 80+, 90+ and 95+

Fidelity, Rf, and Gamut, Rg, ratings of:
Full Spectrum Rf and Rg 95 to 105 typ
High Efficiency Rf ≥ 75 Rg ≥ 90
Wide Range Rf ≥ 70 Rg ≥ 90
Monochromatic Rf ≥ 70 Rg ≥ 90

Input Voltage 24VDC

Power Supply

Input Voltage 120 or 277VAC additional input voltage ranges available, contact factory

Controls and Sensors

Monochromatic single 0-10V input for dimming from 100% down to 1%

Tunable White dual 0-10V inputs, one for brightness 100% down to 1% and one for color min to max CCT

PERFEKTDay Controller

DualDimmer wall mount dual sliders

Occ, Day, and Day/Occ Sensors

Mounting

Recessed

Lengths

Available in 4ft and 8ft lengths. Custom lengths available, contact factory for additional details

Lumen Output

Custom lengths outputs available, contact factory for additional details

Weight

1.2 lbs (0.54 kg) per foot

Certifications

UL listed for dry locations

Warranty

Five year limited warranty

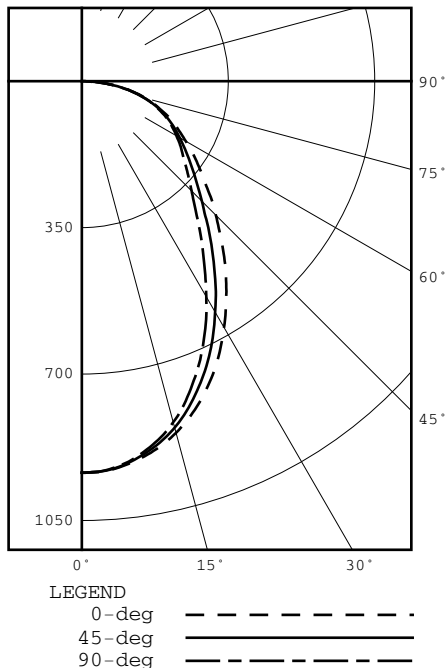
Performance Data

	CCT Range	Nominal Output	Color Deviation	Fidelity	Gamut	CRI	Power
Full Spectrum	2700K to 6000K	467 to 515 lm/ft	0.001 Du'v' Typ. (<1 MacAdam's Ellipse)	95 to 105	95 to 105	95 to 99	7 to 7.5 W/ft
High Efficiency	2700K to 6000K	700 to 900 lm/ft		75 to 90	90 to 110	80 to 90	7 to 7.5 W/ft
High Efficiency	2700K to 6000K	575 to 775 lm/ft		85 to 100	90 to 105	90 to 98	7 to 7.5 W/ft
Wide Range	2000K to 6000K	550 to 900 lm/ft		70 to 85	90 to 110	80 to 95	7 to 8 W/ft
Monochromatic	2700K	1000 lm/ft	3 Step	≥ 70	≥ 89	80+	8.8 W/ft
	3000K	1000 lm/ft	3 Step	≥ 70	≥ 89	80+	8.8 W/ft
	3500K	1000 lm/ft	3 Step	≥ 70	≥ 89	80+	8.8 W/ft
	4000K	1000 lm/ft	3 Step	≥ 70	≥ 89	80+	8.8 W/ft
	5000K	1000 lm/ft	3 Step	≥ 70	≥ 89	80+	8.8 W/ft
	2700K	1000 lm/ft	3 Step	≥ 70	≥ 89	90+	9.8 W/ft
	3000K	1000 lm/ft	3 Step	≥ 70	≥ 89	90+	9.8 W/ft
	3500K	1000 lm/ft	3 Step	≥ 70	≥ 89	90+	9.8 W/ft
	4000K	1000 lm/ft	3 Step	≥ 70	≥ 89	90+	9.8 W/ft
	5000K	1000 lm/ft	3 Step	≥ 70	≥ 89	90+	9.8 W/ft

* All performance data subject to change without prior notification.

Photometric Data

Polar Curves



Candela Distribution

Vertical Angles	Horizontal Angles				
	0	22.5	45	67.5	90
0	936	936	936	936	936
5	929	928	928	926	926
15	870	860	857	848	844
25	755	736	721	699	688
35	602	580	553	519	506
45	453	434	406	379	371
55	335	322	308	295	292
65	245	240	235	231	231
75	158	157	156	153	154
85	52	52	50	49	50
90	0	0	0	0	0

Zonal Lumens

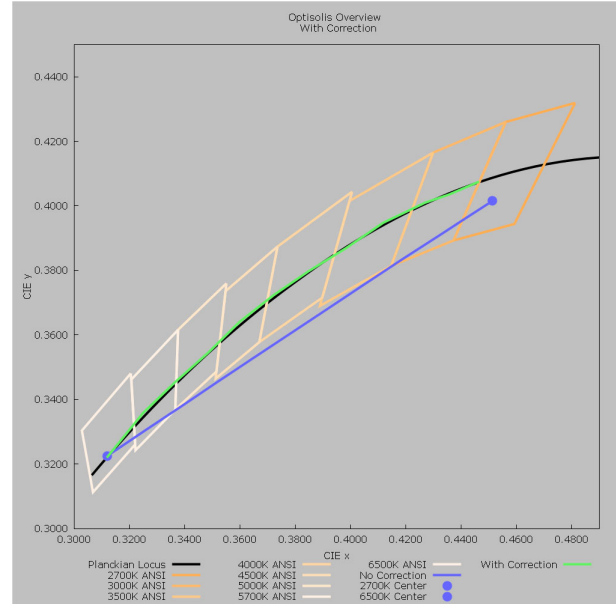
Zone	Lumens
0	0
0-10	88
10-20	240
20-30	330
30-40	346
40-50	317
50-60	278
60-70	234
70-80	163
80-90	55
90	0

Part Num: PB2S-04515W-952760-074D-PDIW-120I-G
 LUMENS: 2050 lm
 LPW: 73.7 lm/W
 CCT: 4000K
 WATTS: 27.8 W
 TESTED ACCORDING TO IESNA LM-79-2019

PERFEKTLIGHT

To meet the ever-changing demands of healthcare, retail, education, hospitality, commercial office, and high-end residential applications, **PERFEKTLight** is a breakthrough tunable white lighting technology that imitates sunlight to synchronize your circadian clock promoting health and wellness. This patent pending core technology utilizes a combination of cutting-edge cool white, warm white, and green LEDs correcting hue errors inherent with other tunable white technologies. Maintaining a position on the black body curve across the full color spectrum within 0.001Du'v, **PERFEKTLight** provides an exceptional CRI (95 to 98), while automatically adjusting the color temperature between 2700K and 6000K over the course of the day.

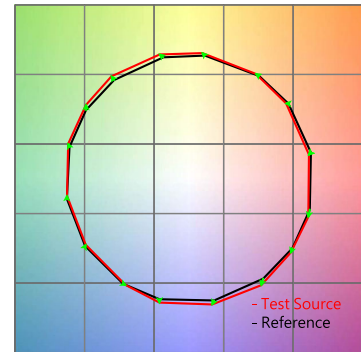
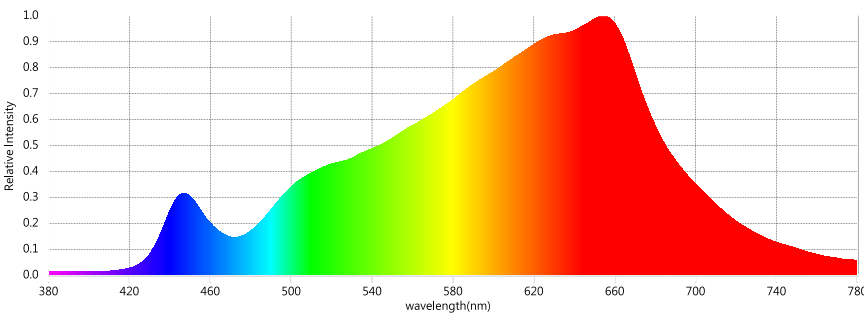
Further defining features of PERFEKTLight are the comprehensive color content along with Set & Forget Control. Mimicking the spectral power density of the sun, it comes factory set based on geographic location and automatically adjusts the color temperature throughout the day, perfectly delivering 12 hours of blue/cyan-enriched light during the day and red/orange-weighted light at night. Additional controls are available including an intuitive Bluetooth app, available for Android and iOS.



Without Correction ——— With Correction ———

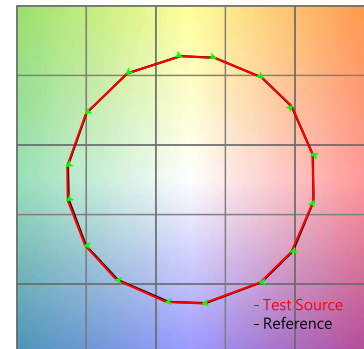
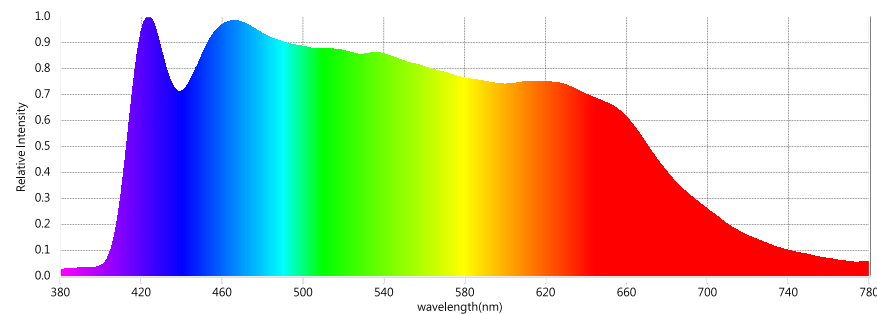
2700K

CRI = 96 | Rf = 95 | Rg = 102 | CQS = 96 | M/P = 0.49*



6000K

CRI = 99 | Rf = 99 | Rg = 100 | CQS = 99 | M/P = 1.1*



*Calculated using the WELL Building standard and ITL spectral data.

Mechanical Drawings

