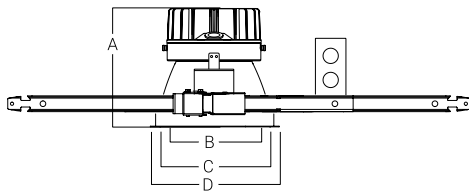
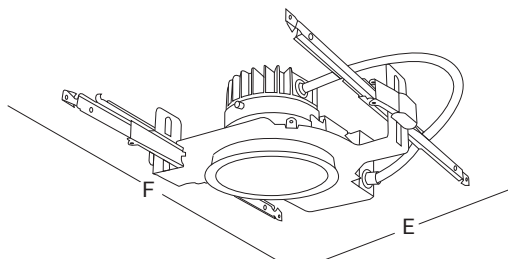


REFLECTOR/  
TRIM COLOR



A: Height = 5-3/4"  
B: Trim Aperture = 4"  
C: Cut-Out = 4-1/2"  
D: Trim Outside Dia = 5-3/8"  
E: Width = 16"  
F: Length = 12-1/2"

NOMINAL	ELITE	LUMENETIX	LED ENGIN
1500	18 W	20 W	-
1200	14 W	18 W	-
1100	-	-	15 W
900	10 W	-	-

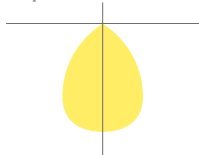
Based on 4000K, 90CRI with semi-specular chrome reflector.  
Actual wattage may vary +/-5%

**DYNAMIC PLATFORM**

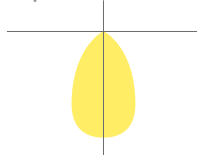
**SMART WHITE** - Tunable White with Smart White technology allows the tuning of luminaires to mimic the natural color patterns throughout the day, enhancing interior office spaces, hospitality, and architectural elements. Tuning of intensity and color in classrooms enables a diversification in student activities, while the use of tunable white technology in healthcare stimulates circadian rhythm, accelerating the healing process. Complementary colors and textures in retail merchandising also has an impact on sales, utilizing the technology to adjust colors throughout the season. A CRI of 90+ is standard, and available on all three platforms. Elite Platform (50K-27K), Lumenetix Platform (80K-16K) and LED Engin Platform (65K-18K)

<b>LUMENS</b>	Elite Platform: 900, 1200, 1500 Lumenetix Platform: 1200, 1500 LED Engin Platform: 1100
<b>TUNABLE WHITE PLATFORM</b>	High Performance: TWH-50K-27K (50K to 27K) Lumenetix: TWH-LTX-80K-16K (80K to 16K) LED Engin: TWH-LENGN-65K-18K (65K to 18K)
<b>CRI</b>	90+ Standard
<b>COLOR QUALITY</b>	2 Step MacAdam Ellipse
<b>DISTRIBUTIONS</b>	WD (Wide Distribution), MD (Medium Distribution) and ND (Narrow Distribution)
<b>TRIM OPTIONS</b>	Downlight, Wall Wash, Double Wall Wash, Wet Location
<b>REFLECTOR COLORS</b>	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), WH (White), MB (Black)
<b>FLANGE COLORS</b>	Self-flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), MB (Black) and TL (Trimless)
<b>DIMMING</b>	1% Dimming Standard, 0-10V (DIM10), DMX-512 DMX-RDM, BLE, LUTH, DALI, DLM
<b>EMERGENCY</b>	10W - Up to 1000L Output (Bodine BSL310) 20W - Up to 2000L Output (Bodine BSL20)
<b>LIFETIME</b>	L70 at 102,000 Hours
<b>PHOTOMETRIC TESTS</b>	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

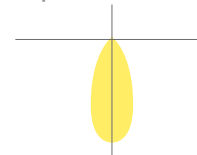
WD: Wide  
Candlepower Distribution Curve



MD: Medium  
Candlepower Distribution Curve



ND: Narrow  
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.







**HH4-LED-TWH-50K-27K-1500L-ND-HH4-4501-CL**

TEST NO.: **LM-63-2002**

INPUT WATTS: **18**

LUMENS: **1543**

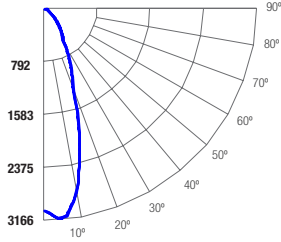
CRI: **90+**

EFFICACY: **85**

CCT: **4000K**

SPACING CRITERIA: **0.64**

**Candle Power Distribution (Candelas)**



**Zonal Lumens Summary**

Zone	Lumens	%Lamp	%Fixt
0-20	812.35	52.60	52.60
0-30	1224.76	79.40	79.40
0-40	1419.04	91.90	91.90
0-60	1533.94	99.40	99.40
0-80	1542.56	99.90	99.90
0-90	1543.4	100.00	100.00

**Luminance (Average candela/M<sup>2</sup>)**

Angle in Degrees	Average		
	0°	45°	90°
45	16286	18146	29899
55	2328	5561	7063
65	878	1148	3662
75	432	690	986
85	159	1529	1991

**Lumens Per Zone**

Zone	Lumens
0-10	277.64
10-20	534.71
20-30	412.41
30-40	194.28
40-50	91.62
50-60	23.27
60-70	6.93
70-80	1.70
80-90	0.83

**Candela Tabulation**

θ	Candela
0	3037.50
5	3054.56
15	1853.85
25	910.23
35	231.33
45	91.59
55	10.62
65	2.95
75	0.89
85	0.11
90	0.04

**Coefficients of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84			
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79			
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74			
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70			
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67			
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61			
10	77	68	63	60	76	68	63	59	67	62	59	66	62	59	66	62	59	58			

Cone of Light		
4.0	190	2.6 ft.
8.0	47.5	5.2 ft.
12.0	21.1	7.8 ft.
16.0	11.9	10.4 ft.
20.0	7.59	13.1 ft.
24.0	5.27	15.7 ft.
Distance to Plane	Footcandle at Nadir	Beam diameter

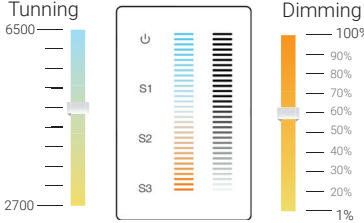


BEAM DIA. MEASURED AT 50% OF NADIR F.C.

RC - Ceiling Cavity Reflectance RW - Wall Reflectance



**CONTROL OPTIONS**

With the integration of controls, Elite Lighting now offers its products with controls-ready performance that increases energy efficiency, smarter space planning, and the enhancement of safety and productivity in the workplace. By utilizing these controls, Elite Lighting luminaires enable your customer's facility to run smarter, with the use of an easily controlled system through any platform.

CONTROL PROTOCOLS	SMART WHITE	LEDENGIN	LUMENETIX	
<p><input type="checkbox"/> <b>ELITE-CONNECT</b> (EC-WC-TWH-HW-MVOLT) - Hard-wired, 0-10V, 120/277V wall mounted controller for CCT Tuning and Intensity Dimming through Simple Touch screen pad, provided by Elite Lighting. Programmable for up to 3-scenes, with a dimming range down to 1%. Applicable for office spaces, hospitality, educational, healthcare, and retail merchandising.</p> 	✓	✓	N/A	
<p><input type="checkbox"/> <b>DIM10</b> (0-10V 1% Dimming Standard) In order to Control the Color Tuning and dimming option with 0-10V driver you must dedicate two control inputs, one for the Dimming Control and another for CCT Tuning. Can be dimmed and tuned with 2 wall box dimmers and compatible with most control systems and/or daylight harvesting systems.</p> <p><input type="checkbox"/> <b>DIM10-LUTRON</b> Compatible with Lutron GRAFIK Eye QS or GRAFIK Eye 3000 by using two GRX-TVI Lutron 0-10V Dimming interfaces; one to tune and another to control dimming. Also compatible with Lutron VIVE system by using two FCJS-010 PowPak or FCJS-ECO EcoSystem PowPak modules per fixture; one to tune and one to control dimming.</p> 	✓	✓	✓	
<p><input type="checkbox"/> <b>DMX</b> (Available on Elite, LED Engin and Lumenetix platforms) - Compatible with Digital Multiplex Controller, Available with two options: DMX-512: Standard DMX Controller and DMX-RDM: DMX Controller with Remote Device Management.</p>	✓	✓	✓	
<p><input type="checkbox"/> <b>LUTECO</b> Compatible with Lutron EcoSystem. Compatible with Lutron GRAFIK Eye EcoSystem, Lutron Energi Saver node EcoSystem, or Lutron Quantum systems.</p>	✓	N/A	✓	
<p><input type="checkbox"/> <b>BLE</b> - Dimming and CCT can be controlled via Bluetooth using an app, via Smartphones or tablets. Lumenetix (Araya5 Module) platform has a range of 8000K to 1650K (RGBW-LTX-80K-16K). For simple deployment, Lumenetix platform allows up to five scenes to be pre-programmed into the module and recalled at the venue using the Lumenetix App. Commissioning of the module and reprogramming of scenes are done via the wireless Lumenetix App, via Smartphone that connects to the embedded radio control via DMX512-RDM, LUTECO, BLE, DALI, DLM.</p>		N/A	✓	✓
<p><input type="checkbox"/> <b>DALI</b> Compatible with Digital Addressable Lighting Interface, available with two options: DT6 and DT8.</p>	✓	✓	✓	
<p><input type="checkbox"/> <b>DLM</b> The combination of the Blanco 3 with DLM from Legrand Wattstopper enables simple commissioning, synonymous with DLM and the enhanced features and flexibility.</p>	N/A	N/A	✓	