

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730576

Luminaire Tested: **HBLED-LD5-18HE-W-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-003-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-UNV-L750
Description: 18000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20447.0 lumens
Efficiency: N/A
Efficacy: 185.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.31 / 1.43
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

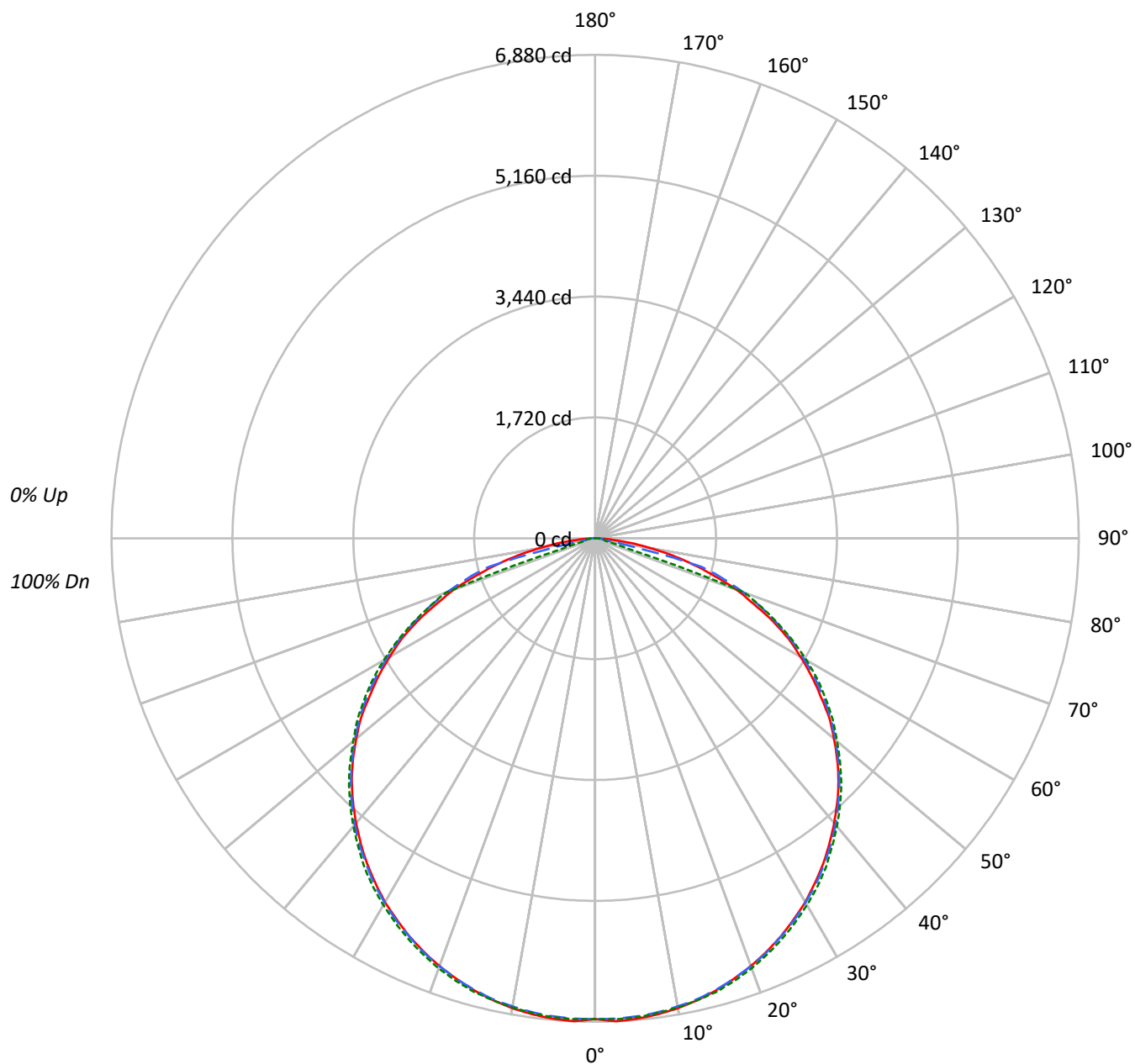
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59		
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11047	11047	11047
5°	11126	11070	11090
10°	11133	11093	11115
15°	11131	11116	11167
20°	11130	11133	11191
25°	11136	11141	11209
30°	11148	11162	11236
35°	11146	11182	11275
40°	11148	11218	11279
45°	11179	11220	11311
50°	11145	11210	11283
55°	11022	11177	11297
60°	10897	11074	11212
65°	10656	10878	10959
70°	10117	10548	10678
75°	9024	9784	1179
80°	7256	1219	1290
85°	4828	1582	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.9	3.2
10°-20°	1877.8	9.2
20°-30°	2885.1	14.1
30°-40°	3551.6	17.4
40°-50°	3786.4	18.5
50°-60°	3539.5	17.3
60°-70°	2802.0	13.7
70°-80°	1192.1	5.8
80°-90°	162.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5412.7	26.5
0°-40°	8964.3	43.8
0°-60°	16290.2	79.7
0°-90°	20447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6842	6842	6842	6842	6842	
5°	6865	6834	6830	6802	6842	653
15°	6659	6647	6650	6632	6681	1880
25°	6251	6243	6254	6251	6292	2882
35°	5655	5646	5673	5693	5720	3538
45°	4896	4868	4914	4934	4954	3772
55°	3916	3928	3971	3984	4013	3506
65°	2789	2814	2847	2869	2869	2744
75°	1446	1509	1568	256	189	1530
85°	261	78	85	88	87	340
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6842.2	6842.2	6842.2	6842.2	6842.2
2.5°	6880.3	6848.2	6842.2	6814.7	6851.3
5°	6865.0	6834.5	6830.0	6802.5	6842.2
7.5°	6833.0	6808.6	6805.6	6776.6	6816.2
10°	6790.3	6767.5	6765.9	6740.0	6779.7
12.5°	6732.4	6712.6	6718.7	6692.8	6732.4
15°	6659.2	6647.1	6650.1	6631.8	6680.6
17.5°	6570.8	6564.7	6570.8	6557.1	6601.3
20°	6477.9	6470.2	6479.4	6471.8	6512.9
22.5°	6369.6	6360.5	6378.8	6368.1	6406.2
25°	6250.8	6243.1	6253.8	6250.8	6291.9
27.5°	6115.1	6107.5	6130.3	6131.9	6163.9
30°	5979.5	5968.8	5987.1	5994.7	6026.7
32.5°	5817.9	5814.8	5842.3	5848.4	5881.9
35°	5654.8	5645.7	5673.1	5692.9	5720.3
37.5°	5476.5	5474.9	5503.9	5520.7	5534.4
40°	5289.0	5281.4	5322.5	5339.3	5351.5
42.5°	5098.5	5081.7	5121.3	5142.7	5156.4
45°	4895.7	4868.3	4914.0	4933.8	4953.7
47.5°	4673.2	4648.8	4693.0	4714.4	4728.1
50°	4437.0	4414.1	4462.9	4481.2	4491.8
52.5°	4199.2	4176.3	4228.1	4243.4	4269.3
55°	3915.7	3927.9	3970.6	3984.3	4013.2
57.5°	3653.5	3664.2	3705.3	3722.1	3755.6
60°	3374.6	3391.4	3429.5	3446.2	3472.1
62.5°	3104.8	3106.3	3152.1	3159.7	3179.5
65°	2789.3	2813.7	2847.2	2868.6	2868.6
67.5°	2437.2	2496.6	2554.6	2550.0	2562.2
70°	2143.0	2165.9	2234.5	2245.2	2261.9
72.5°	1774.2	1833.6	1909.8	1426.7	484.7
75°	1446.5	1509.0	1568.4	256.1	189.0
77.5°	1123.3	1172.1	521.3	146.3	143.3
80°	780.4	858.1	131.1	134.1	138.7
82.5°	513.7	419.2	108.2	118.9	120.4
85°	260.6	77.7	85.4	88.4	86.9
87.5°	85.4	47.3	48.8	50.3	51.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)