

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: P731148

Luminaire Tested: **HBLED-LD5-60HE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CLI-UNV-L840
Description: 60000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57782.0 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

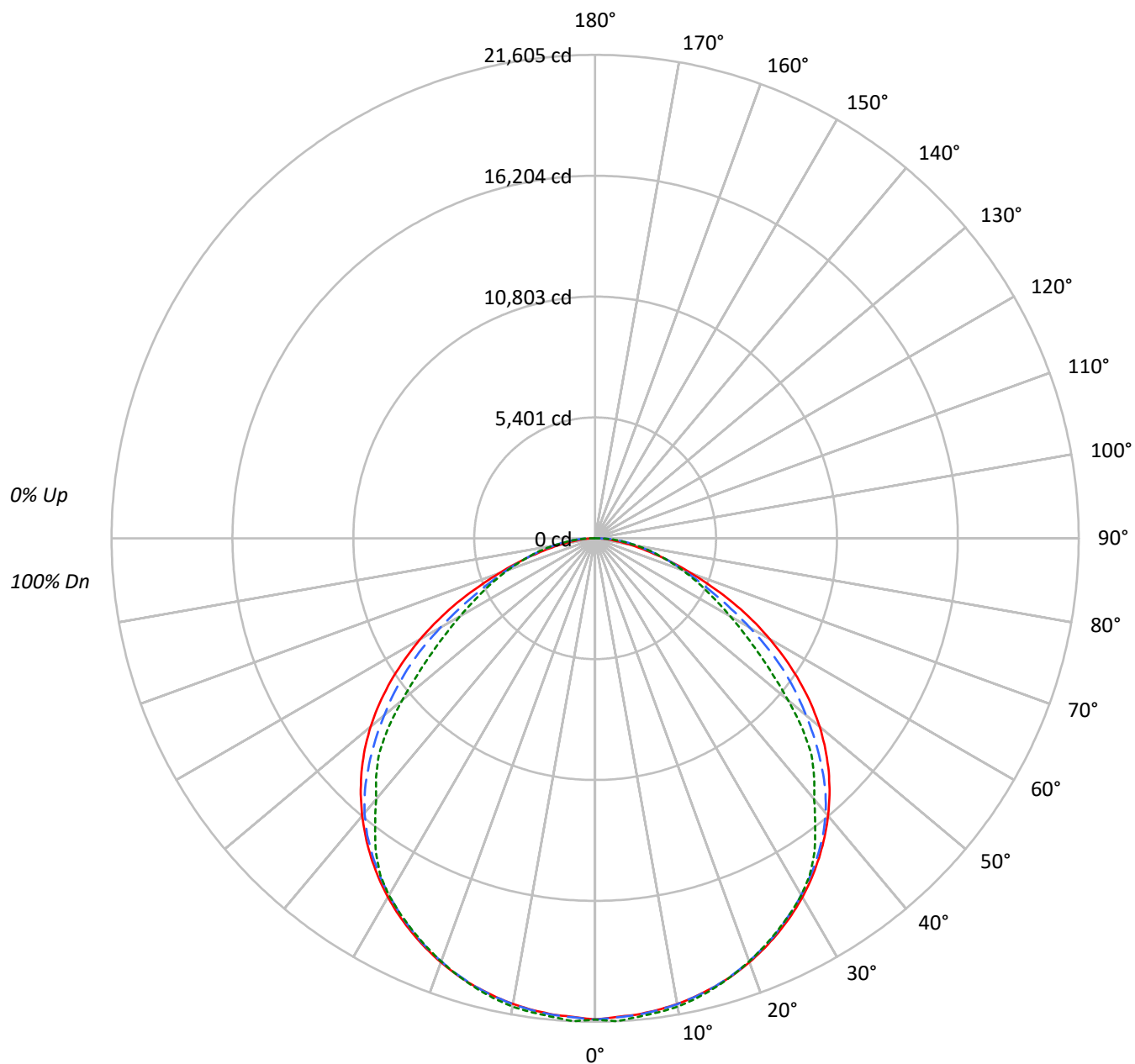
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71		
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61		
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34724	34724	34724
5°	34631	34656	34811
10°	34651	34668	34850
15°	34655	34651	34733
20°	34646	34567	34575
25°	34594	34465	34423
30°	34537	34330	34349
35°	34376	34162	33679
40°	34131	33783	32079
45°	33698	32619	31192
50°	32887	30882	28250
55°	31389	28882	24980
60°	29130	25770	22527
65°	25893	22312	20714
70°	21488	19940	19525
75°	17379	18248	18475
80°	13804	17453	17381
85°	10808	18749	17886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2039.6	3.5
10°-20°	5866.7	10.2
20°-30°	8945.7	15.5
30°-40°	10823.0	18.7
40°-50°	10962.7	19.0
50°-60°	9060.9	15.7
60°-70°	5984.6	10.4
70°-80°	3120.6	5.4
80°-90°	978.3	1.7
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°	16852.0	29.2
0°-40°	27674.9	47.9
0°-60°	47698.6	82.5
0°-90°	57782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21507	21507	21507	21507	21507	
5°	21367	21497	21383	21476	21478	###
15°	20732	20838	20730	20794	20779	5854
25°	19418	19496	19346	19395	19323	8954
35°	17440	17464	17332	17309	17087	10909
45°	14758	14719	14285	13841	13660	11364
55°	11151	10986	10260	9264	8874	9939
65°	6777	6581	5840	5461	5422	6694
75°	2786	2835	2925	2964	2962	3035
85°	583	751	1012	1004	966	708
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21506.7	21506.7	21506.7	21506.7	21506.7
2.5°	21416.5	21542.9	21437.0	21530.0	21604.8
5°	21367.3	21496.6	21382.8	21475.8	21478.4
7.5°	21272.0	21401.0	21284.7	21377.7	21375.1
10°	21134.9	21256.4	21145.3	21256.4	21256.4
12.5°	20949.2	21067.8	20959.5	21062.6	21047.1
15°	20732.4	20838.0	20729.8	20794.3	20778.7
17.5°	20476.7	20572.3	20450.8	20504.9	20474.1
20°	20164.2	20252.1	20117.9	20187.6	20122.8
22.5°	19813.0	19895.6	19758.8	19810.6	19738.1
25°	19418.2	19495.6	19345.9	19394.9	19322.6
27.5°	18992.0	19061.7	18893.8	18953.4	18896.4
30°	18524.7	18558.4	18413.8	18491.3	18424.2
32.5°	18003.2	18023.9	17897.3	17966.9	17853.5
35°	17440.3	17463.6	17332.0	17308.7	17086.7
37.5°	16838.8	16849.1	16725.3	16516.0	16149.4
40°	16193.5	16188.3	16028.2	15545.3	15219.9
42.5°	15503.9	15501.5	15219.9	14670.0	14484.2
45°	14757.8	14719.2	14285.3	13841.3	13660.4
47.5°	13957.6	13916.1	13309.4	12955.8	12545.2
50°	13092.6	13020.3	12294.7	11811.8	11246.6
52.5°	12160.5	12049.4	11311.1	10531.3	9996.9
55°	11151.0	10985.7	10260.4	9263.8	8873.9
57.5°	10100.3	9854.9	9150.0	8179.4	7861.8
60°	9021.0	8747.2	7980.4	7182.8	6976.1
62.5°	7910.7	7639.8	6857.4	6255.9	6142.2
65°	6777.4	6581.0	5840.1	5460.6	5422.0
67.5°	5615.5	5545.8	4980.3	4786.8	4771.3
70°	4551.8	4538.9	4223.9	4125.7	4136.1
72.5°	3637.9	3622.4	3576.0	3526.8	3529.4
75°	2785.9	2834.8	2925.2	2963.8	2961.5
77.5°	2078.4	2179.2	2370.1	2447.5	2434.6
80°	1484.6	1634.4	1877.1	1949.4	1869.3
82.5°	988.8	1146.3	1432.8	1443.2	1378.7
85°	583.4	751.3	1012.1	1004.4	965.5
87.5°	289.1	451.8	606.7	580.8	555.2
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)