

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: P731134

Luminaire Tested: **HBLED-LD5-60HE-N-UNV-L750**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23767)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-N-UNV-L750
Description: 60000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64259.0 lumens
Efficiency: N/A
Efficacy: 181.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

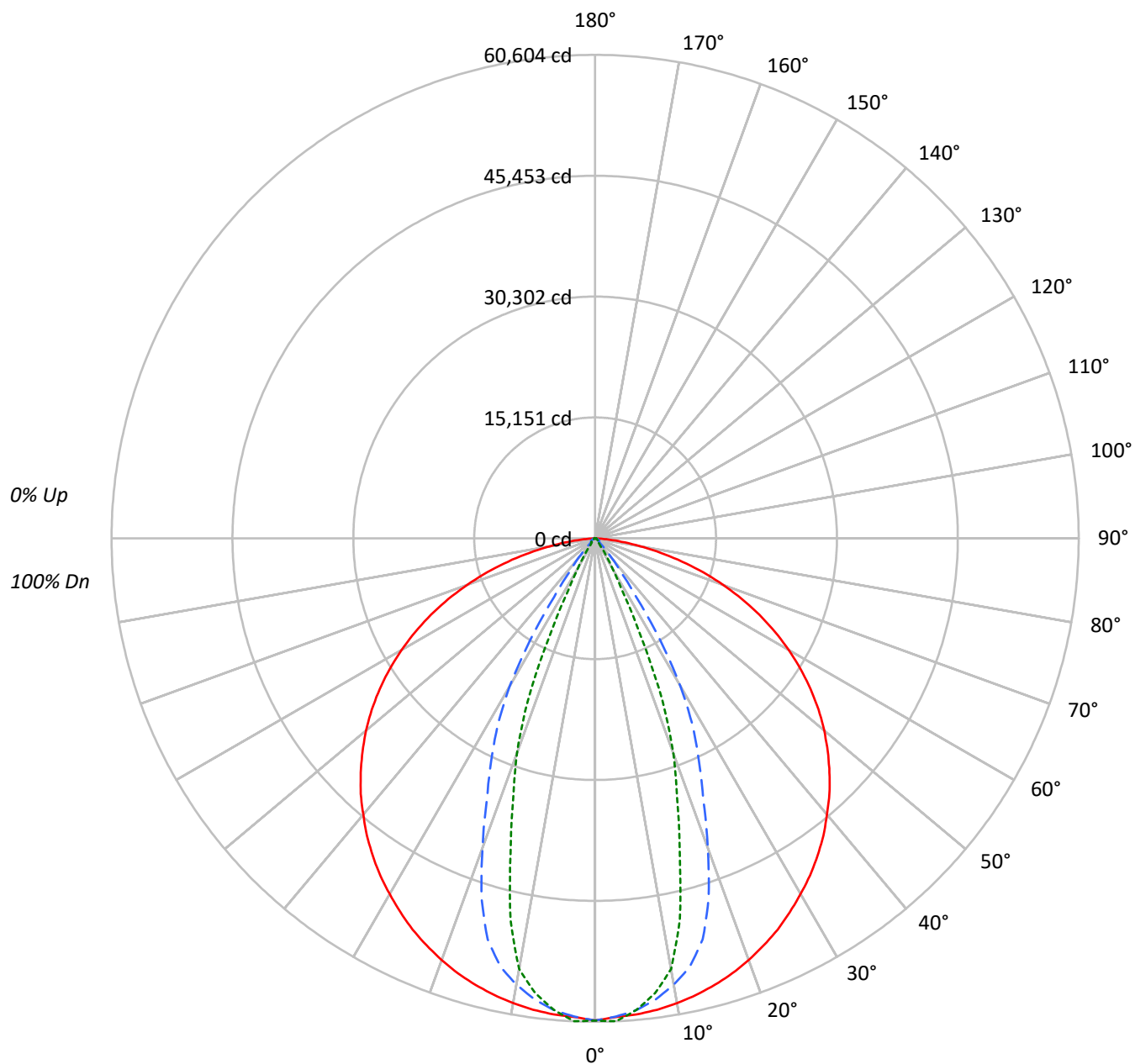
Input Watts (W): 355
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81						
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73						
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66						
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60						
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55						
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51						
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47						
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44						
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	97614	97614	97614
5°	97092	96235	96193
10°	97032	93151	89883
15°	96895	87025	68405
20°	96669	70943	49239
25°	96423	54854	24255
30°	95997	39867	7866
35°	95770	17687	2024
40°	95268	7183	1364
45°	94842	2016	1451
50°	94104	1430	1611
55°	92748	1700	689
60°	90458	1895	418
65°	86737	1208	495
70°	80580	1073	611
75°	70492	808	843
80°	52707	989	1204
85°	26108	1276	1597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5610.6	8.7
10°-20°	14029.2	21.8
20°-30°	15195.8	23.6
30°-40°	11253.1	17.5
40°-50°	8105.2	12.6
50°-60°	5018.6	7.8
60°-70°	3086.4	4.8
70°-80°	1627.0	2.5
80°-90°	333.0	0.5
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°	34835.6	54.2
0°-40°	46088.7	71.7
0°-60°	59212.5	92.1
0°-90°	64259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	64259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	60458	60458	60458	60458	60458	
5°	59906	60127	59376	59420	59351	###
15°	57967	56621	52063	44274	40924	16364
25°	54125	49578	30791	19370	13615	24939
35°	48588	34254	8973	2111	1027	30398
45°	41536	19298	883	638	636	32033
55°	32948	3975	604	546	245	29413
65°	22704	420	316	201	130	22401
75°	11300	98	130	170	135	11935
85°	1409	38	69	104	86	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	60457.8	60457.8	60457.8	60457.8	60457.8
2.5°	60069.5	60452.2	60000.6	60337.1	60604.5
5°	59905.5	60127.0	59376.4	59419.5	59350.6
7.5°	59617.9	59566.2	58303.7	57751.4	57509.9
10°	59183.8	58841.4	56816.8	55663.5	54823.6
12.5°	58623.0	57857.9	54961.7	51294.7	49016.9
15°	57967.1	56621.2	52062.6	44274.3	40923.5
17.5°	57184.8	55278.0	47322.8	37106.9	34116.0
20°	56261.5	53779.5	41288.7	31570.6	28657.3
22.5°	55231.9	51956.1	35427.5	26238.3	22082.4
25°	54124.7	49577.7	30791.1	19370.3	13615.2
27.5°	52844.9	46520.4	26442.6	11409.4	6948.7
30°	51490.3	42838.9	21383.5	6137.4	4219.3
32.5°	50124.1	38665.8	15131.0	3833.8	2392.8
35°	48588.4	34253.9	8973.3	2111.0	1026.9
37.5°	46986.2	30210.3	5303.4	960.7	658.7
40°	45200.3	26514.6	3408.0	638.4	647.0
42.5°	43474.8	23069.0	1918.4	629.8	641.4
45°	41536.0	19298.3	882.9	638.4	635.6
47.5°	39531.5	15389.7	572.2	644.2	644.2
50°	37463.8	11004.0	569.4	658.7	641.4
52.5°	35280.8	6865.3	592.5	655.9	526.4
55°	32948.3	3974.7	603.9	546.4	244.6
57.5°	30532.4	2343.9	609.7	313.5	138.1
60°	28012.8	1297.0	586.7	232.9	129.5
62.5°	25415.7	618.4	463.0	218.7	126.5
65°	22703.5	419.9	316.3	201.2	129.5
67.5°	19888.0	324.9	250.1	189.8	132.3
70°	17069.4	241.5	227.3	189.8	129.5
72.5°	14205.0	164.0	189.8	192.6	129.5
75°	11299.9	97.8	129.5	169.8	135.1
77.5°	8421.0	60.3	100.6	175.4	164.0
80°	5668.6	51.7	106.4	164.0	129.5
82.5°	3327.7	46.1	103.7	126.5	103.7
85°	1409.3	37.5	68.9	103.7	86.2
87.5°	264.6	31.7	54.7	83.4	74.8
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)