

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: P#

Luminaire Tested: **HBLED-LD5-60SE-N-CLI-UNV-L750-ED4-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-CLI-UNV-L750-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

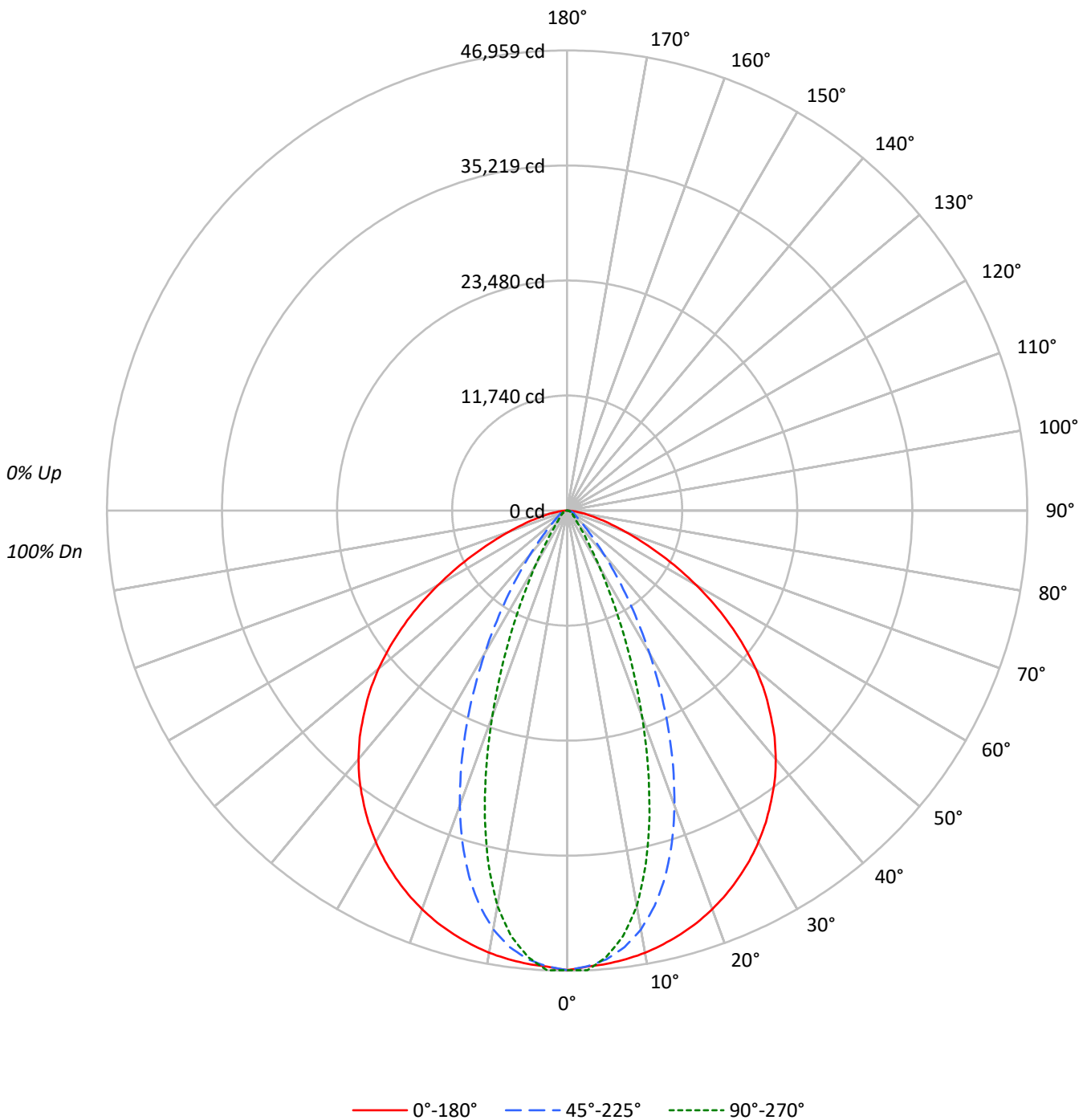
Lumens per Lamp: N/A
Luminaire Lumens: 51339.0 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63096	63096	63096
5°	62717	62093	61766
10°	62611	59281	55940
15°	62359	53886	45178
20°	61985	45852	32020
25°	61431	36155	19346
30°	60685	26094	9943
35°	59589	17060	4966
40°	58176	10247	2898
45°	55759	6119	2167
50°	52590	4002	1820
55°	47597	3036	1588
60°	40903	2585	1449
65°	32901	2359	1368
70°	24787	2526	1360
75°	18233	2401	1399
80°	13340	2392	1531
85°	9990	2898	1982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4318.7	8.4
10°-20°	10744.1	20.9
20°-30°	11900.7	23.2
30°-40°	9534.5	18.6
40°-50°	6806.4	13.3
50°-60°	4371.9	8.5
60°-70°	2369.3	4.6
70°-80°	1012.7	2.0
80°-90°	280.8	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°	26963.4	52.5
0°-40°	36498.0	71.1
0°-60°	47676.2	92.9
0°-90°	51339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	46894	46894	46894	46894	46894	
5°	46435	46608	45973	45827	45731	###
15°	44768	43367	38684	34187	32433	12631
25°	41379	36486	24354	15867	13032	19063
35°	36279	26241	10386	4189	3023	22683
45°	29304	15148	3216	1368	1139	22587
55°	20291	6773	1294	795	677	18083
65°	10334	2781	741	511	430	10349
75°	3507	1018	462	321	269	3897
85°	647	269	188	156	128	790
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	46894.5	46894.5	46894.5	46894.5	46894.5
2.5°	46585.7	46877.2	46563.5	46758.6	46958.7
5°	46435.1	46608.0	45973.2	45827.4	45731.1
7.5°	46173.2	46123.8	44930.9	44157.8	43784.8
10°	45827.4	45427.3	43389.6	41690.3	40944.4
12.5°	45333.5	44508.5	41302.5	38318.8	37054.2
15°	44767.8	43367.4	38684.4	34186.6	32432.9
17.5°	44091.1	42033.6	35554.9	29755.5	27441.1
20°	43290.8	40423.2	32022.9	25047.8	22362.9
22.5°	42396.7	38565.8	28241.4	20354.9	17474.9
25°	41379.1	36486.1	24353.7	15867.0	13031.5
27.5°	40279.9	34176.7	20488.2	11855.8	9269.7
30°	39059.8	31677.1	16795.7	8548.5	6399.6
32.5°	37728.5	29019.4	13364.9	6011.9	4376.8
35°	36278.6	26240.7	10386.1	4189.0	3023.2
37.5°	34794.2	23405.2	7844.6	2961.5	2168.6
40°	33122.0	20579.6	5834.0	2168.6	1649.9
42.5°	31326.4	17808.3	4317.5	1669.7	1336.2
45°	29303.5	15148.2	3215.9	1368.4	1138.6
47.5°	27342.3	12668.4	2442.8	1165.8	990.4
50°	25124.3	10430.6	1911.7	1017.6	869.4
52.5°	22770.5	8462.0	1551.1	896.6	765.7
55°	20290.6	6772.6	1294.3	795.3	676.8
57.5°	17778.7	5364.7	1106.5	708.9	602.7
60°	15200.1	4290.3	960.8	634.8	538.4
62.5°	12683.2	3430.8	839.8	570.6	481.6
65°	10334.3	2781.2	741.0	511.3	429.8
67.5°	8163.2	2198.3	691.6	459.4	387.8
70°	6300.8	1711.7	642.2	410.0	345.8
72.5°	4774.4	1314.0	568.1	365.6	306.3
75°	3507.3	1017.6	461.9	321.1	269.2
77.5°	2509.5	783.0	375.4	279.1	232.2
80°	1721.6	582.9	308.7	239.6	197.6
82.5°	1118.9	412.5	249.5	197.6	163.0
85°	647.1	269.2	187.7	155.6	128.4
87.5°	279.1	148.2	128.4	116.1	98.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)