

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-L835-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-L835-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

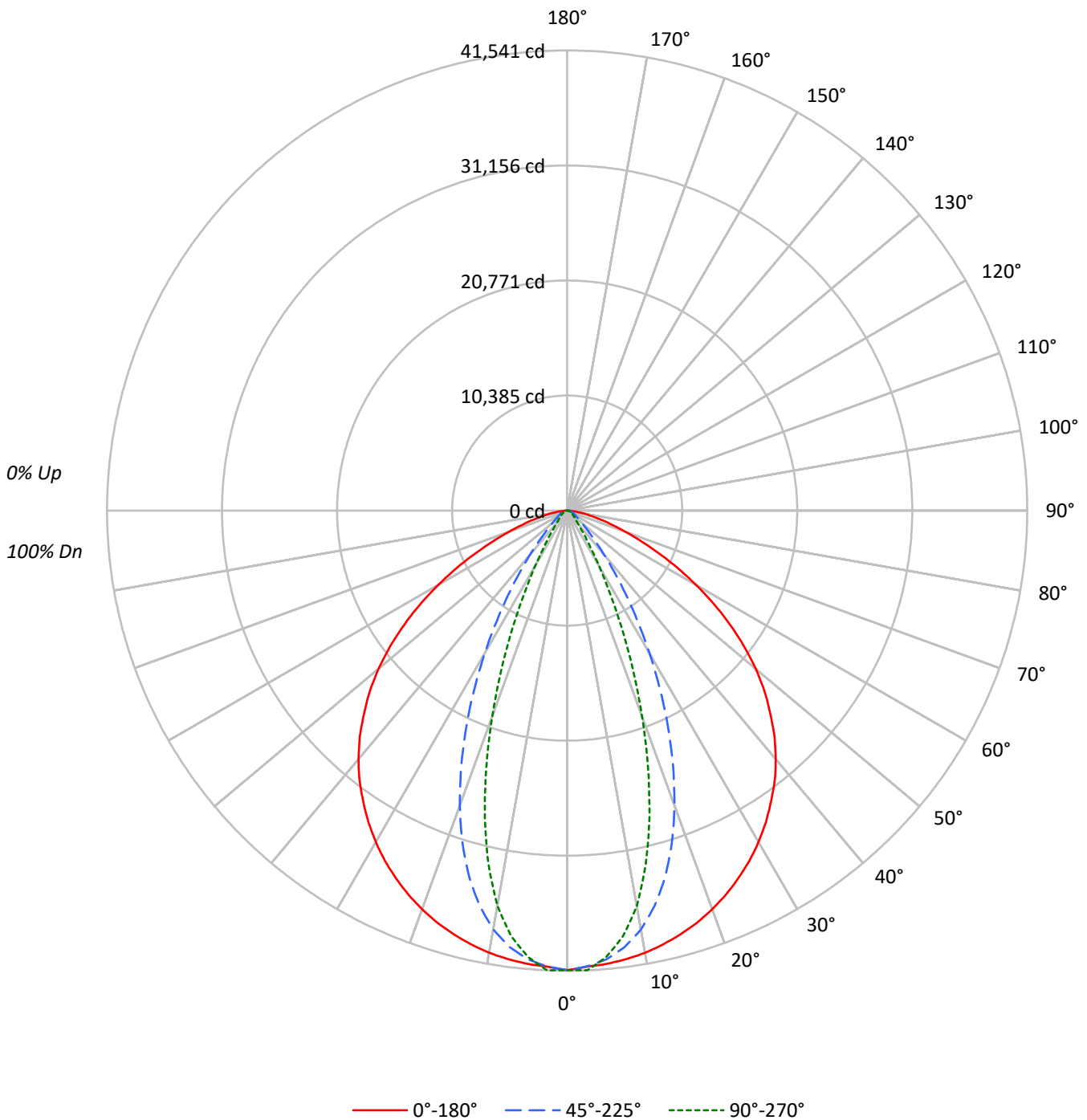
Lumens per Lamp: N/A
Luminaire Lumens: 45416.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	55817	55817	55817
5°	55481	54929	54640
10°	55388	52442	49486
15°	55165	47669	39965
20°	54834	40562	28326
25°	54343	31984	17114
30°	53683	23084	8796
35°	52714	15091	4393
40°	51464	9065	2564
45°	49326	5413	1917
50°	46523	3540	1610
55°	42106	2686	1404
60°	36184	2287	1282
65°	29105	2087	1210
70°	21927	2235	1203
75°	16130	2124	1238
80°	11800	2116	1354
85°	8838	2564	1754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3820.5	8.4
10°-20°	9504.5	20.9
20°-30°	10527.7	23.2
30°-40°	8434.5	18.6
40°-50°	6021.2	13.3
50°-60°	3867.5	8.5
60°-70°	2095.9	4.6
70°-80°	895.8	2.0
80°-90°	248.4	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°	23852.6	52.5
0°-40°	32287.2	71.1
0°-60°	42175.8	92.9
0°-90°	45416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	45416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	41484	41484	41484	41484	41484	
5°	41078	41231	40669	40540	40455	###
15°	39603	38364	34221	30242	28691	11174
25°	36605	32277	21544	14036	11528	16863
35°	32093	23213	9188	3706	2674	20066
45°	25923	13400	2845	1210	1007	19981
55°	17950	5991	1145	704	599	15997
65°	9142	2460	656	452	380	9155
75°	3103	900	409	284	238	3448
85°	572	238	166	138	114	699
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	41484.2	41484.2	41484.2	41484.2	41484.2
2.5°	41211.1	41468.9	41191.4	41364.1	41541.0
5°	41077.8	41230.8	40669.2	40540.3	40455.1
7.5°	40846.2	40802.5	39747.2	39063.3	38733.3
10°	40540.3	40186.3	38383.7	36880.5	36220.6
12.5°	40103.3	39373.5	36537.4	33897.9	32779.2
15°	39603.0	38364.1	34221.3	30242.5	28691.1
17.5°	39004.3	37184.2	31452.9	26322.6	24275.2
20°	38296.3	35759.6	28328.4	22158.0	19782.9
22.5°	37505.4	34116.4	24983.2	18006.5	15458.8
25°	36605.1	32276.7	21544.0	14036.4	11528.0
27.5°	35632.8	30233.7	18124.5	10488.0	8200.3
30°	34553.4	28022.5	14857.9	7562.3	5661.3
32.5°	33375.7	25671.5	11823.0	5318.3	3871.8
35°	32093.1	23213.3	9187.9	3705.7	2674.4
37.5°	30780.0	20705.0	6939.5	2619.8	1918.4
40°	29300.7	18205.3	5160.9	1918.4	1459.6
42.5°	27712.2	15753.8	3819.4	1477.1	1182.1
45°	25922.7	13400.5	2844.9	1210.5	1007.3
47.5°	24187.8	11206.8	2161.0	1031.3	876.2
50°	22225.7	9227.2	1691.2	900.2	769.1
52.5°	20143.4	7485.8	1372.2	793.2	677.3
55°	17949.7	5991.2	1144.9	703.6	598.7
57.5°	15727.6	4745.8	978.9	627.1	533.1
60°	13446.4	3795.3	850.0	561.5	476.3
62.5°	11219.9	3035.0	742.9	504.7	426.1
65°	9142.0	2460.3	655.5	452.3	380.2
67.5°	7221.4	1944.6	611.8	406.4	343.0
70°	5573.9	1514.2	568.1	362.7	305.9
72.5°	4223.6	1162.4	502.5	323.4	270.9
75°	3102.7	900.2	408.6	284.0	238.2
77.5°	2220.0	692.6	332.1	246.9	205.4
80°	1522.9	515.7	273.1	211.9	174.8
82.5°	989.8	364.9	220.7	174.8	144.2
85°	572.5	238.2	166.1	137.7	113.6
87.5°	246.9	131.1	113.6	102.7	87.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)