

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-LD5-60HE-W-CLI-UNV-L850-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CLI-UNV-L850-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

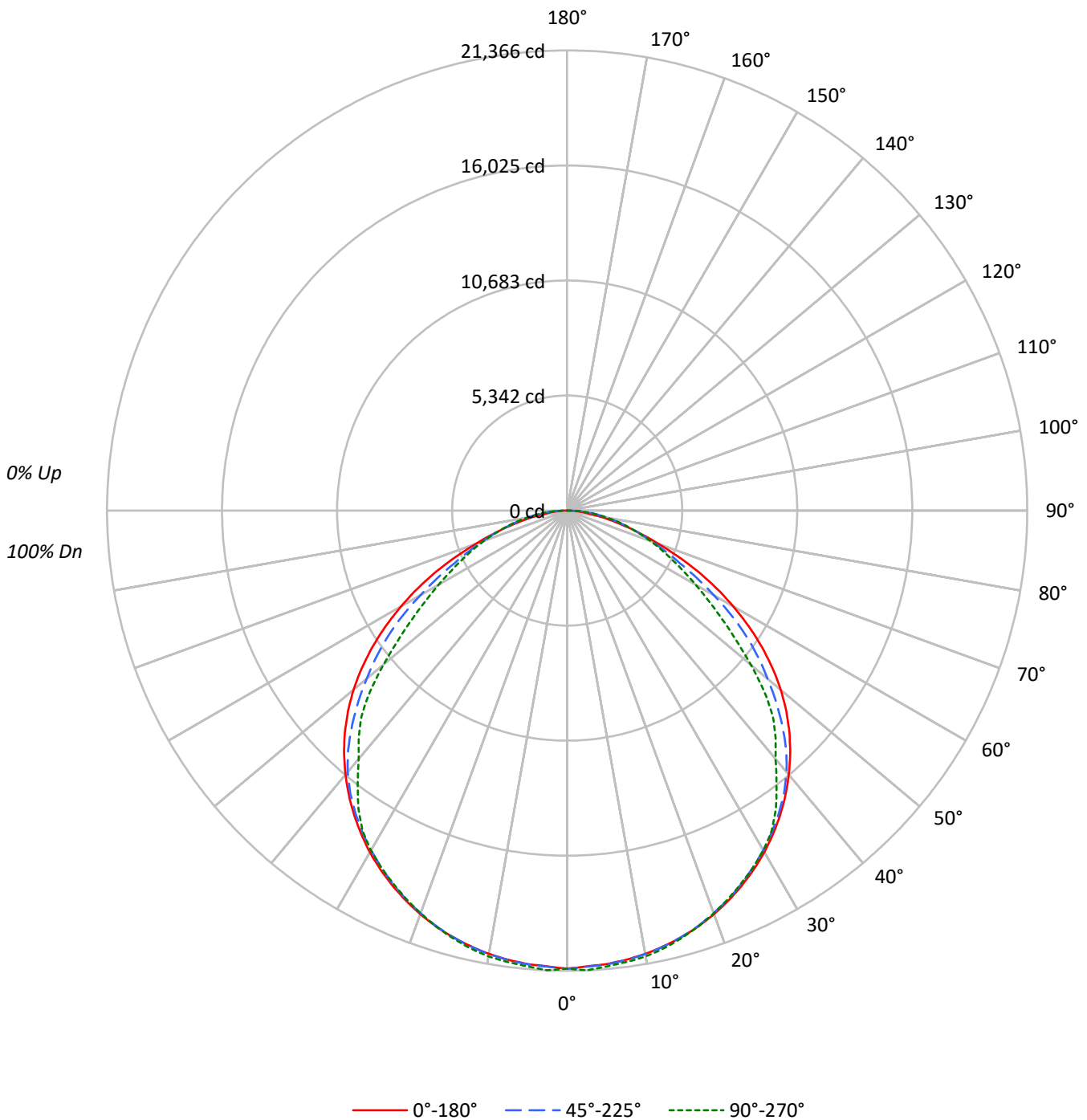
Lumens per Lamp: N/A
Luminaire Lumens: 57142.0 lumens
Efficiency: N/A
Efficacy: 154.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 369
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	0
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°	28617	28617	28617
5°	28540	28560	28688
10°	28556	28570	28720
15°	28559	28556	28623
20°	28552	28486	28494
25°	28508	28402	28368
30°	28462	28291	28307
35°	28329	28153	27755
40°	28127	27840	26436
45°	27770	26881	25705
50°	27102	25451	23281
55°	25868	23802	20585
60°	24006	21237	18565
65°	21338	18387	17070
70°	17708	16432	16091
75°	14322	15038	15225
80°	11375	14383	14324
85°	8908	15452	14742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2017.0	3.5
10°-20°	5801.7	10.2
20°-30°	8846.6	15.5
30°-40°	10703.1	18.7
40°-50°	10841.3	19.0
50°-60°	8960.6	15.7
60°-70°	5918.3	10.4
70°-80°	3086.0	5.4
80°-90°	967.5	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°	16665.3	29.2
0°-40°	27368.4	47.9
0°-60°	47170.2	82.5
0°-90°	57142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	57142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21269	21269	21269	21269	21269	
5°	21131	21258	21146	21238	21240	###
15°	20503	20607	20500	20564	20549	5790
25°	19203	19280	19132	19180	19108	8854
35°	17247	17270	17140	17117	16897	10788
45°	14594	14556	14127	13688	13509	11238
55°	11028	10864	10147	9161	8776	9829
65°	6702	6508	5776	5400	5362	6620
75°	2755	2804	2893	2931	2929	3001
85°	577	743	1001	993	955	700
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21268.6	21268.6	21268.6	21268.6	21268.6
2.5°	21179.2	21304.3	21199.6	21291.6	21365.6
5°	21130.7	21258.4	21146.0	21237.9	21240.5
7.5°	21036.2	21163.9	21049.0	21140.9	21138.4
10°	20900.9	21020.9	20911.1	21020.9	21020.9
12.5°	20717.1	20834.5	20727.3	20829.4	20814.1
15°	20502.6	20607.3	20500.0	20563.9	20548.6
17.5°	20249.8	20344.3	20224.3	20277.9	20247.3
20°	19940.9	20027.7	19894.9	19963.9	19900.0
22.5°	19593.6	19675.3	19540.0	19591.1	19519.6
25°	19203.0	19279.6	19131.5	19180.0	19108.5
27.5°	18781.7	18850.6	18684.7	18743.4	18687.2
30°	18319.6	18352.8	18209.8	18286.4	18220.0
32.5°	17803.8	17824.2	17699.1	17768.1	17655.7
35°	17247.2	17270.2	17140.0	17117.0	16897.4
37.5°	16652.3	16662.5	16540.0	16333.1	15970.6
40°	16014.0	16008.9	15850.6	15373.1	15051.4
42.5°	15332.3	15329.7	15051.4	14507.6	14323.7
45°	14594.4	14556.1	14127.1	13688.0	13509.2
47.5°	13802.9	13762.0	13162.0	12812.2	12406.2
50°	12947.5	12876.0	12158.6	11681.1	11122.0
52.5°	12025.8	11916.0	11185.8	10414.7	9886.2
55°	11027.5	10864.1	10146.6	9161.1	8775.5
57.5°	9988.3	9745.8	9048.7	8088.7	7774.6
60°	8921.1	8650.4	7892.1	7103.1	6898.9
62.5°	7823.2	7555.1	6781.4	6186.5	6074.2
65°	6702.3	6508.2	5775.5	5400.1	5361.8
67.5°	5553.3	5484.4	4925.2	4733.7	4718.4
70°	4501.4	4488.6	4177.1	4080.1	4090.3
72.5°	3597.5	3582.2	3536.3	3487.7	3490.3
75°	2755.0	2803.5	2892.8	2931.1	2928.6
77.5°	2055.4	2154.9	2343.9	2420.5	2407.7
80°	1468.1	1616.2	1856.2	1927.7	1848.6
82.5°	977.9	1133.6	1417.1	1427.3	1363.4
85°	577.0	743.0	1000.9	993.2	954.9
87.5°	286.0	446.8	600.0	574.5	548.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)