

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-WG-UNV-L740-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-WG-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

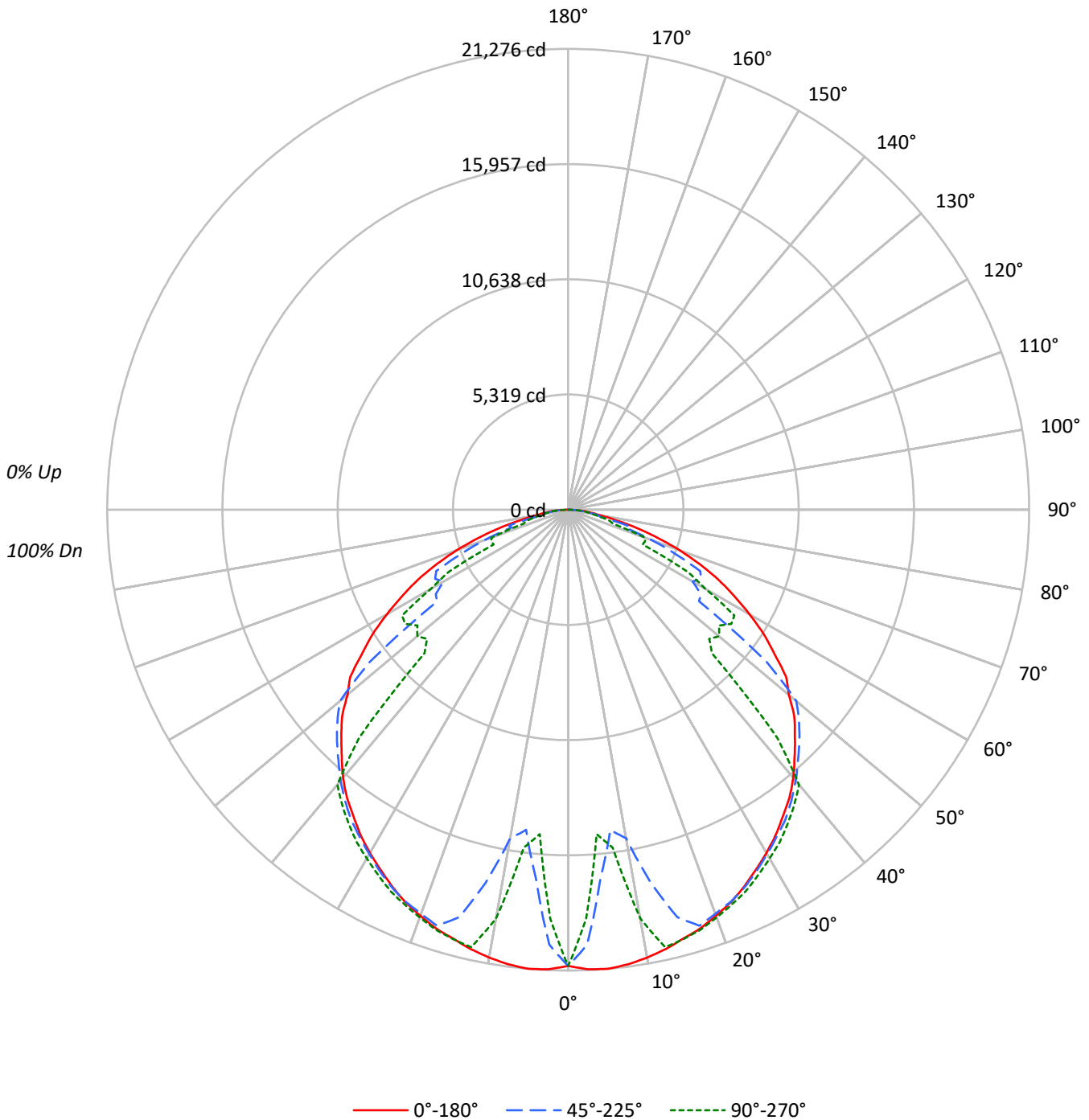
Lumens per Lamp: N/A
Luminaire Lumens: 55805.0 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28342	28342	28342
5°	28736	23086	20303
10°	28687	21054	26185
15°	28560	27135	28584
20°	28560	28430	28682
25°	28509	28572	28834
30°	28426	28520	28888
35°	28381	28696	29031
40°	28384	28694	29106
45°	28162	28713	17843
50°	27843	28771	19017
55°	27256	17300	21554
60°	26000	17833	19738
65°	24362	21411	12077
70°	21512	16220	14804
75°	17140	14744	10266
80°	11808	10656	8822
85°	11316	9838	9332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1684.4	3.0
10°-20°	5277.1	9.5
20°-30°	8681.9	15.6
30°-40°	10916.4	19.6
40°-50°	10706.2	19.2
50°-60°	8870.6	15.9
60°-70°	6256.6	11.2
70°-80°	2729.7	4.9
80°-90°	682.0	1.2
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°	15643.4	28.0
0°-40°	26559.8	47.6
0°-60°	46136.6	82.7
0°-90°	55805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	55805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21065	21065	21065	21065	21065	
5°	21276	19803	17092	15498	15032	###
15°	20503	14239	19480	20584	20520	5798
25°	19203	17571	19246	19374	19422	8852
35°	17279	17269	17470	17586	17674	10826
45°	14800	14846	15090	13365	9377	11424
55°	11619	12000	7375	8385	9188	10396
65°	7652	8103	6725	5174	3793	7524
75°	3297	3232	2836	1854	1975	3536
85°	733	652	637	610	604	760
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21064.6	21064.6	21064.6	21064.6	21064.6
2.5°	21238.4	20797.6	20097.4	19215.8	18903.5
5°	21276.2	19802.7	17092.5	15498.1	15032.1
7.5°	21167.8	17996.7	14901.1	15236.1	15729.8
10°	20996.6	16409.9	15409.9	18130.2	19165.4
12.5°	20777.4	14999.3	17654.1	20480.2	20686.8
15°	20502.9	14238.7	19480.3	20583.5	20520.5
17.5°	20271.2	14684.5	20135.1	20376.9	20331.6
20°	19946.2	15573.6	19855.6	20049.5	20031.9
22.5°	19618.8	16626.5	19591.1	19729.6	19729.6
25°	19203.2	17571.0	19246.0	19374.5	19422.3
27.5°	18747.3	18115.1	18815.3	18921.1	19006.7
30°	18296.4	18193.2	18356.9	18492.9	18593.6
32.5°	17820.4	17780.1	17908.5	18052.1	18180.6
35°	17278.8	17268.8	17470.3	17586.1	17674.3
37.5°	16770.1	16734.8	16921.2	17082.4	17150.4
40°	16160.5	16160.5	16336.8	16500.5	16571.1
42.5°	15465.3	15563.6	15699.6	15868.3	14291.6
45°	14800.4	14845.7	15090.0	13364.7	9377.4
47.5°	14160.6	14218.5	14450.3	8591.6	8825.8
50°	13301.7	13563.6	13745.0	8566.4	9085.2
52.5°	12674.5	12787.9	11538.5	8480.7	8772.9
55°	11619.1	11999.5	7375.0	8385.0	9188.5
57.5°	10717.4	10994.5	7251.6	8591.6	9090.3
60°	9662.0	10085.2	6626.9	8289.3	7334.7
62.5°	8649.5	9052.5	6919.1	6523.6	6211.3
65°	7652.1	8102.9	6725.1	5173.6	3793.3
67.5°	6558.9	6138.3	5365.0	3644.7	3836.1
70°	5468.3	4287.0	4123.2	4075.4	3763.1
72.5°	4347.4	3128.3	2737.9	3057.8	2188.8
75°	3297.1	3231.6	2836.1	1853.8	1974.7
77.5°	2287.1	2332.4	1518.8	1808.5	1501.2
80°	1523.9	1319.8	1375.3	1153.6	1138.5
82.5°	1055.4	1078.0	904.2	876.5	889.1
85°	733.0	652.4	637.3	609.5	604.5
87.5°	244.3	284.6	264.5	239.3	254.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)