

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-LD5-12SE-W-WG-UNV-L850-ED1-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-LD5-12SE-W-WG-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

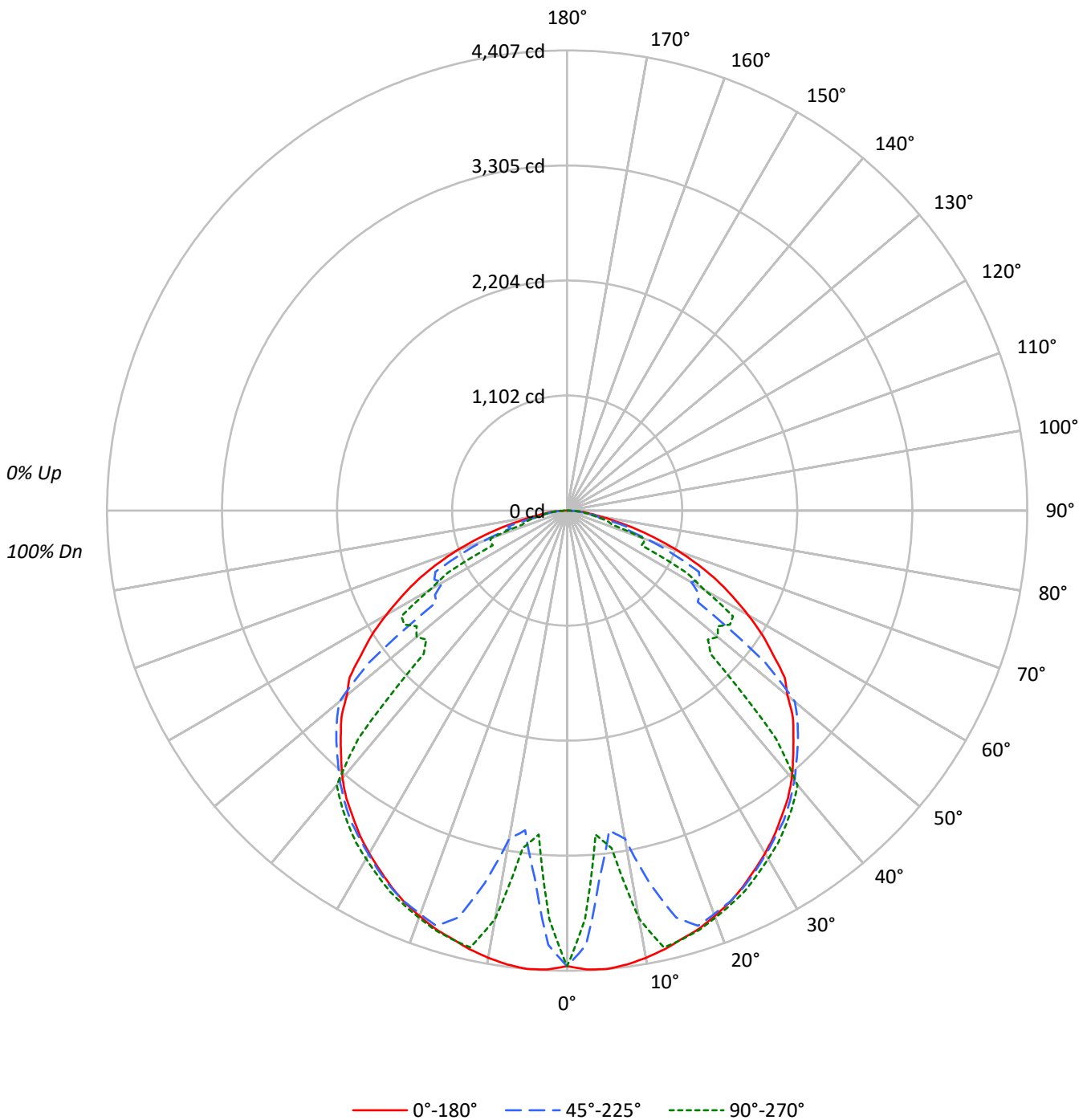
Lumens per Lamp: N/A
Luminaire Lumens: 11559.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
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°	5871	5871	5871
5°	5952	4782	4205
10°	5942	4361	5424
15°	5916	5621	5921
20°	5916	5889	5941
25°	5905	5918	5972
30°	5888	5907	5984
35°	5879	5944	6013
40°	5879	5944	6029
45°	5833	5947	3696
50°	5767	5959	3939
55°	5646	3583	4465
60°	5385	3694	4088
65°	5046	4435	2501
70°	4456	3360	3067
75°	3550	3054	2126
80°	2445	2208	1827
85°	2343	2038	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	3.0
10°-20°	1093.0	9.5
20°-30°	1798.3	15.6
30°-40°	2261.1	19.6
40°-50°	2217.6	19.2
50°-60°	1837.4	15.9
60°-70°	1296.0	11.2
70°-80°	565.4	4.9
80°-90°	141.3	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°	3240.3	28.0
0°-40°	5501.4	47.6
0°-60°	9556.4	82.7
0°-90°	11559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4363	4363	4363	4363	4363	
5°	4407	4102	3540	3210	3114	418
15°	4247	2949	4035	4264	4250	1201
25°	3978	3640	3986	4013	4023	1833
35°	3579	3577	3619	3643	3661	2242
45°	3066	3075	3126	2768	1942	2366
55°	2407	2486	1528	1737	1903	2153
65°	1585	1678	1393	1072	786	1558
75°	683	669	588	384	409	732
85°	152	135	132	126	125	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4363.1	4363.1	4363.1	4363.1	4363.1
2.5°	4399.1	4307.8	4162.8	3980.2	3915.5
5°	4407.0	4101.8	3540.4	3210.1	3113.6
7.5°	4384.5	3727.7	3086.5	3155.9	3258.1
10°	4349.1	3399.0	3191.9	3755.3	3969.8
12.5°	4303.7	3106.8	3656.7	4242.1	4284.9
15°	4246.8	2949.3	4035.0	4263.5	4250.5
17.5°	4198.8	3041.6	4170.6	4220.7	4211.3
20°	4131.5	3225.8	4112.7	4152.9	4149.2
22.5°	4063.7	3443.9	4057.9	4086.6	4086.6
25°	3977.6	3639.5	3986.5	4013.1	4023.0
27.5°	3883.2	3752.2	3897.3	3919.2	3936.9
30°	3789.8	3768.4	3802.3	3830.5	3851.3
32.5°	3691.2	3682.8	3709.4	3739.2	3765.8
35°	3579.0	3576.9	3618.7	3642.7	3660.9
37.5°	3473.6	3466.3	3504.9	3538.3	3552.4
40°	3347.4	3347.4	3383.9	3417.8	3432.4
42.5°	3203.4	3223.7	3251.9	3286.8	2960.2
45°	3065.6	3075.0	3125.6	2768.2	1942.4
47.5°	2933.1	2945.1	2993.1	1779.6	1828.1
50°	2755.2	2809.5	2847.0	1774.4	1881.8
52.5°	2625.3	2648.8	2390.0	1756.6	1817.2
55°	2406.7	2485.5	1527.6	1736.8	1903.2
57.5°	2219.9	2277.3	1502.0	1779.6	1882.9
60°	2001.3	2089.0	1372.6	1717.0	1519.2
62.5°	1791.6	1875.1	1433.2	1351.3	1286.6
65°	1585.0	1678.4	1393.0	1071.6	785.7
67.5°	1358.6	1271.4	1111.3	754.9	794.6
70°	1132.7	888.0	854.1	844.1	779.5
72.5°	900.5	648.0	567.1	633.4	453.4
75°	682.9	669.4	587.5	384.0	409.0
77.5°	473.7	483.1	314.6	374.6	310.9
80°	315.6	273.4	284.9	238.9	235.8
82.5°	218.6	223.3	187.3	181.6	184.2
85°	151.8	135.1	132.0	126.3	125.2
87.5°	50.6	59.0	54.8	49.6	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)