

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-N-CLI-UNV-L835-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-N-CLI-UNV-L835-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

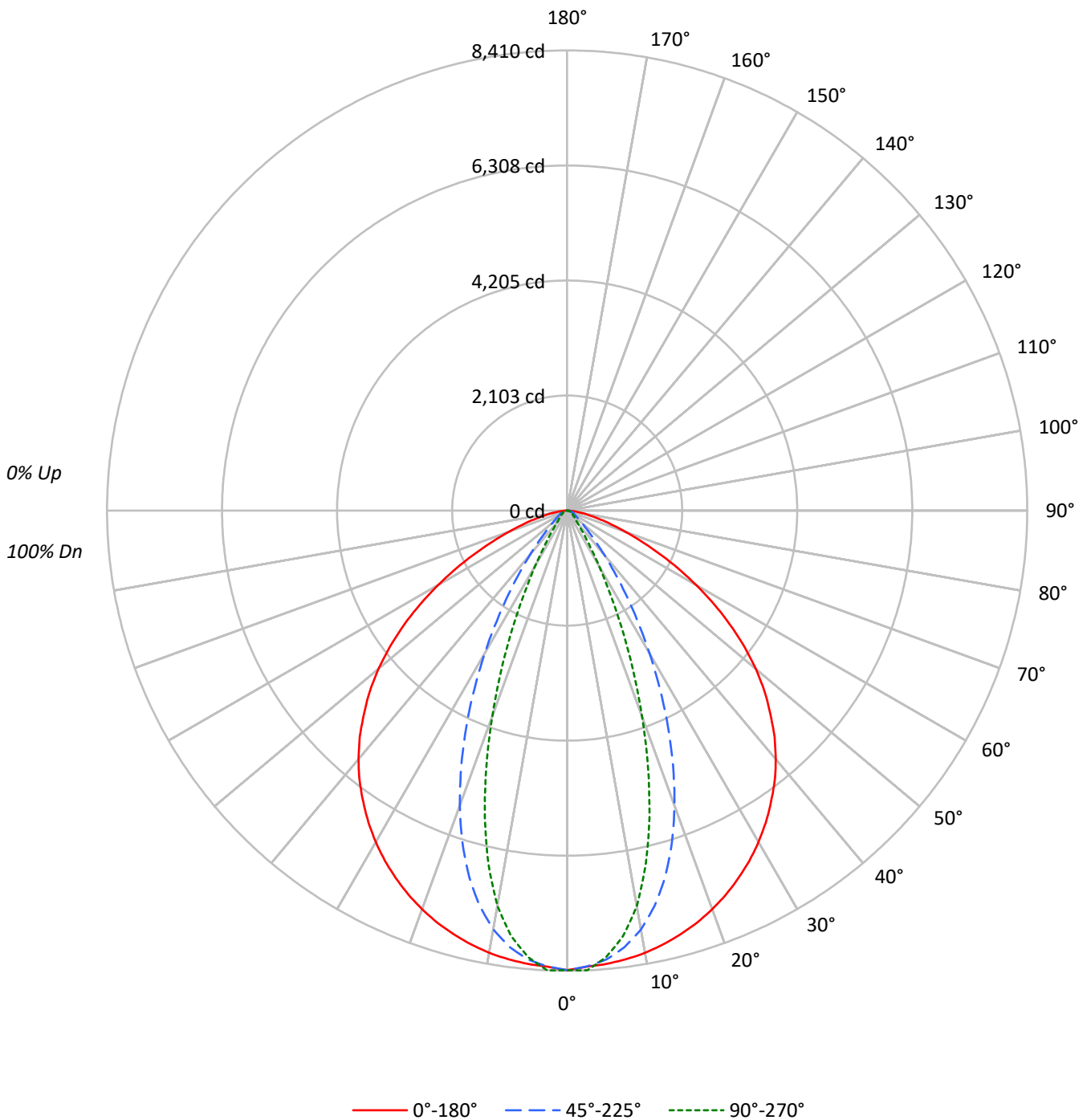
Lumens per Lamp: N/A
Luminaire Lumens: 9195.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	11301	11301	11301
5°	11233	11121	11062
10°	11214	10617	10019
15°	11169	9651	8092
20°	11102	8212	5735
25°	11002	6475	3465
30°	10869	4674	1781
35°	10673	3055	889
40°	10420	1835	519
45°	9987	1096	388
50°	9419	717	326
55°	8525	544	284
60°	7326	463	259
65°	5893	422	245
70°	4439	452	244
75°	3266	430	251
80°	2389	428	274
85°	1789	519	355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.5	8.4
10°-20°	1924.3	20.9
20°-30°	2131.4	23.2
30°-40°	1707.7	18.6
40°-50°	1219.1	13.3
50°-60°	783.0	8.5
60°-70°	424.3	4.6
70°-80°	181.4	2.0
80°-90°	50.3	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°	4829.2	52.5
0°-40°	6536.9	71.1
0°-60°	8539.0	92.9
0°-90°	9195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9195.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8399	8399	8399	8399	8399	
5°	8317	8348	8234	8208	8191	790
15°	8018	7767	6928	6123	5809	2262
25°	7411	6535	4362	2842	2334	3414
35°	6498	4700	1860	750	542	4063
45°	5248	2713	576	245	204	4045
55°	3634	1213	232	142	121	3239
65°	1851	498	133	92	77	1854
75°	628	182	83	58	48	698
85°	116	48	34	28	23	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8399.0	8399.0	8399.0	8399.0	8399.0
2.5°	8343.7	8395.9	8339.7	8374.6	8410.5
5°	8316.7	8347.7	8234.0	8207.9	8190.6
7.5°	8269.8	8260.9	8047.3	7908.8	7842.0
10°	8207.9	8136.2	7771.2	7466.9	7333.3
12.5°	8119.4	7971.6	7397.4	6863.0	6636.5
15°	8018.1	7767.3	6928.5	6122.9	5808.9
17.5°	7896.9	7528.4	6368.0	5329.3	4914.8
20°	7753.5	7239.9	5735.4	4486.1	4005.3
22.5°	7593.4	6907.3	5058.1	3645.6	3129.8
25°	7411.1	6534.8	4361.8	2841.8	2334.0
27.5°	7214.3	6121.2	3669.5	2123.4	1660.2
30°	6995.7	5673.5	3008.2	1531.1	1146.2
32.5°	6757.3	5197.5	2393.7	1076.7	783.9
35°	6497.6	4699.8	1860.2	750.3	541.5
37.5°	6231.8	4192.0	1405.0	530.4	388.4
40°	5932.3	3685.9	1044.9	388.4	295.5
42.5°	5610.7	3189.5	773.3	299.0	239.3
45°	5248.4	2713.1	576.0	245.1	203.9
47.5°	4897.1	2269.0	437.5	208.8	177.4
50°	4499.9	1868.2	342.4	182.3	155.7
52.5°	4078.3	1515.6	277.8	160.6	137.1
55°	3634.1	1213.0	231.8	142.4	121.2
57.5°	3184.2	960.8	198.2	127.0	107.9
60°	2722.4	768.4	172.1	113.7	96.4
62.5°	2271.6	614.5	150.4	102.2	86.3
65°	1850.9	498.1	132.7	91.6	77.0
67.5°	1462.1	393.7	123.9	82.3	69.5
70°	1128.5	306.6	115.0	73.4	61.9
72.5°	855.1	235.3	101.7	65.5	54.9
75°	628.2	182.3	82.7	57.5	48.2
77.5°	449.5	140.2	67.2	50.0	41.6
80°	308.3	104.4	55.3	42.9	35.4
82.5°	200.4	73.9	44.7	35.4	29.2
85°	115.9	48.2	33.6	27.9	23.0
87.5°	50.0	26.5	23.0	20.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)