

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-LD5-30HE-W-FLI-UNV-L740-ED2-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 (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-FLI-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

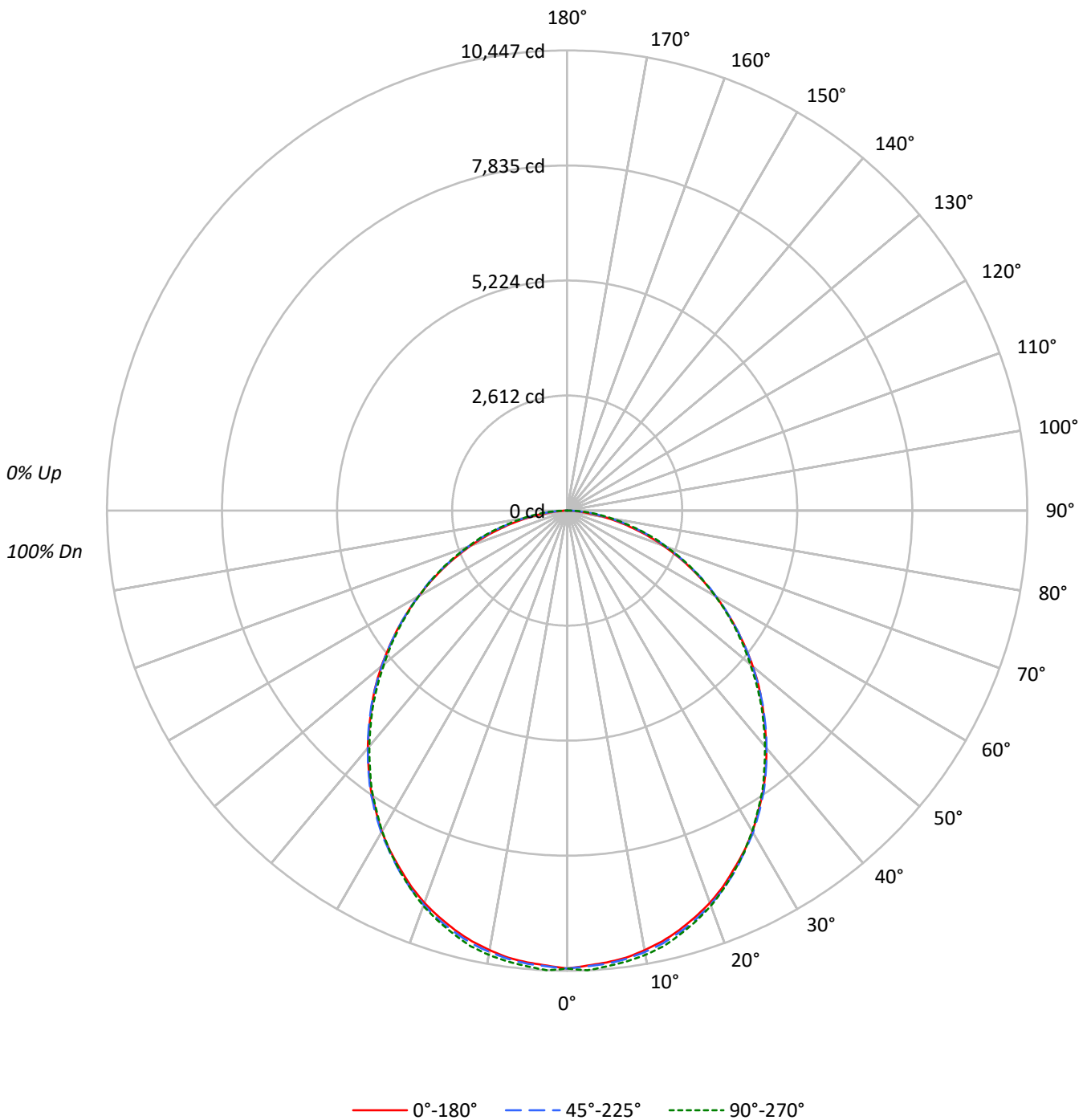
Lumens per Lamp: N/A
Luminaire Lumens: 27158.0 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	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	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13989	13989	13989
5°	13909	13948	14028
10°	13846	13902	13992
15°	13724	13799	13866
20°	13569	13634	13674
25°	13318	13393	13374
30°	13072	13107	13054
35°	12748	12781	12700
40°	12365	12365	12270
45°	11933	11966	11843
50°	11523	11503	11360
55°	11024	11026	10926
60°	10490	10503	10462
65°	9887	9986	10011
70°	9132	9382	9392
75°	8070	8593	8727
80°	6619	7526	7951
85°	4593	6319	7145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.3	3.6
10°-20°	2797.2	10.3
20°-30°	4156.9	15.3
30°-40°	4860.5	17.9
40°-50°	4846.0	17.8
50°-60°	4204.5	15.5
60°-70°	3105.5	11.4
70°-80°	1738.8	6.4
80°-90°	463.9	1.7
90°-100°	1.4	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°	7937.4	29.2
0°-40°	12797.8	47.1
0°-60°	21848.4	80.4
0°-90°	27156.6	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	27158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10397	10397	10397	10397	10397	
5°	10298	10363	10327	10373	10386	978
15°	9853	9922	9906	9954	9954	2779
25°	8971	9043	9022	9042	9008	4136
35°	7761	7830	7781	7780	7732	4848
45°	6271	6338	6288	6263	6224	4841
55°	4700	4732	4700	4692	4658	4202
65°	3106	3136	3137	3152	3144	3071
75°	1552	1599	1653	1665	1679	1653
85°	298	360	409	446	463	361
90°	0	7	8	18	16	12
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10396.8	10396.8	10396.8	10396.8	10396.8
2.5°	10340.0	10401.5	10358.5	10399.5	10447.1
5°	10298.3	10363.1	10327.4	10373.0	10386.3
7.5°	10237.5	10300.3	10265.9	10311.6	10325.4
10°	10134.4	10202.5	10175.4	10226.9	10241.5
12.5°	10014.0	10078.2	10060.3	10120.5	10130.4
15°	9852.7	9921.5	9906.3	9953.9	9954.5
17.5°	9674.2	9739.0	9727.7	9764.8	9763.5
20°	9476.5	9545.9	9522.1	9562.5	9549.9
22.5°	9242.5	9316.5	9286.8	9320.5	9288.7
25°	8970.7	9042.8	9021.6	9041.5	9008.4
27.5°	8707.6	8773.7	8730.0	8753.8	8718.8
30°	8414.0	8470.2	8436.5	8444.4	8402.1
32.5°	8084.1	8150.9	8109.9	8108.6	8063.6
35°	7761.4	7829.5	7781.3	7780.0	7731.7
37.5°	7404.4	7467.9	7411.0	7414.3	7358.1
40°	7040.1	7095.0	7040.1	7037.5	6985.9
42.5°	6644.7	6717.5	6667.2	6673.2	6604.4
45°	6271.2	6337.9	6288.4	6262.6	6224.2
47.5°	5898.9	5928.0	5887.0	5880.4	5826.2
50°	5504.9	5526.7	5495.6	5487.7	5426.9
52.5°	5097.6	5135.3	5095.6	5085.0	5044.7
55°	4699.6	4732.0	4700.2	4692.3	4657.9
57.5°	4298.9	4341.2	4308.8	4300.9	4273.1
60°	3898.2	3910.8	3902.9	3914.8	3887.7
62.5°	3500.2	3529.3	3538.6	3535.3	3514.1
65°	3105.5	3135.9	3136.6	3152.4	3144.5
67.5°	2701.5	2741.2	2752.4	2769.0	2776.2
70°	2321.4	2351.8	2384.8	2394.7	2387.5
72.5°	1938.5	1987.5	2024.5	2033.1	2064.2
75°	1552.4	1598.7	1652.9	1664.8	1678.7
77.5°	1194.1	1255.6	1304.5	1320.4	1337.5
80°	854.2	922.3	971.3	993.1	1026.1
82.5°	560.7	630.1	679.7	701.5	741.8
85°	297.5	359.7	409.3	445.6	462.8
87.5°	87.9	140.8	169.3	179.8	195.0
90°	0.0	6.6	7.9	17.9	16.5
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)