

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-WG-UNV-L840-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-WG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

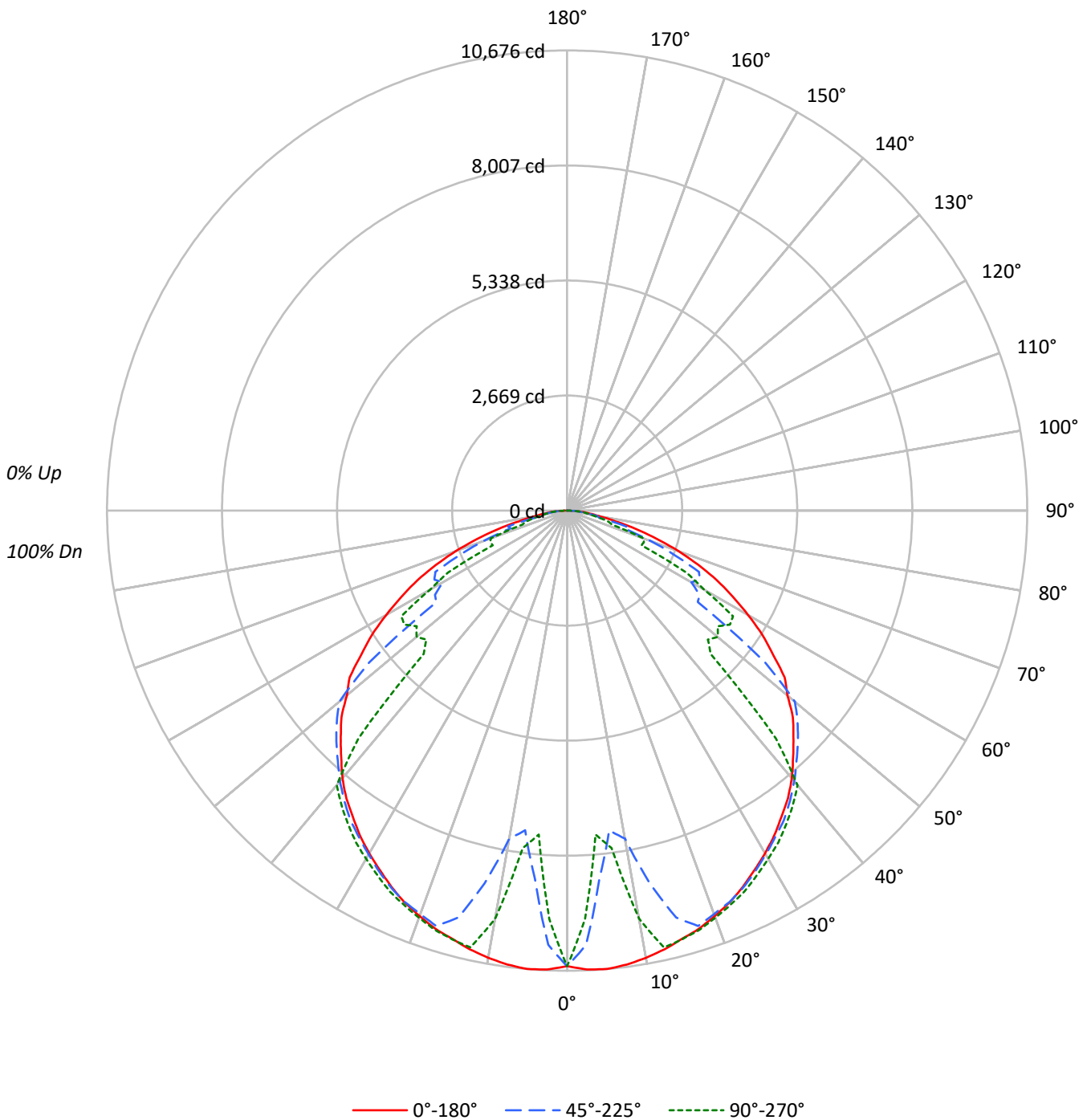
Lumens per Lamp: N/A
Luminaire Lumens: 28002.0 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14222	14222	14222
5°	14419	11584	10188
10°	14394	10564	13139
15°	14331	13616	14343
20°	14331	14266	14392
25°	14305	14337	14468
30°	14264	14311	14495
35°	14241	14399	14567
40°	14243	14398	14605
45°	14131	14408	8953
50°	13971	14437	9543
55°	13677	8681	10815
60°	13047	8948	9904
65°	12224	10744	6060
70°	10794	8139	7428
75°	8601	7398	5151
80°	5924	5347	4427
85°	5678	4937	4682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.2	3.0
10°-20°	2647.9	9.5
20°-30°	4356.4	15.6
30°-40°	5477.6	19.6
40°-50°	5372.2	19.2
50°-60°	4451.1	15.9
60°-70°	3139.5	11.2
70°-80°	1369.7	4.9
80°-90°	342.2	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°	7849.6	28.0
0°-40°	13327.2	47.6
0°-60°	23150.6	82.7
0°-90°	28002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10570	10570	10570	10570	10570	
5°	10676	9937	8577	7777	7543	###
15°	10288	7145	9775	10328	10297	2909
25°	9636	8817	9657	9722	9746	4442
35°	8670	8665	8766	8824	8869	5432
45°	7427	7449	7572	6706	4705	5733
55°	5830	6021	3701	4208	4611	5216
65°	3840	4066	3375	2596	1903	3775
75°	1654	1622	1423	930	991	1774
85°	368	327	320	306	303	381
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10569.8	10569.8	10569.8	10569.8	10569.8
2.5°	10657.1	10435.9	10084.5	9642.2	9485.4
5°	10676.0	9936.6	8576.7	7776.7	7542.8
7.5°	10621.7	9030.4	7477.1	7645.2	7892.9
10°	10535.7	8234.2	7732.4	9097.4	9616.9
12.5°	10425.8	7526.4	8858.5	10276.6	10380.3
15°	10288.0	7144.7	9774.9	10328.4	10296.8
17.5°	10171.7	7368.4	10103.5	10224.8	10202.1
20°	10008.7	7814.6	9963.2	10060.5	10051.7
22.5°	9844.4	8342.9	9830.5	9900.0	9900.0
25°	9635.8	8816.8	9657.3	9721.8	9745.8
27.5°	9407.1	9089.8	9441.2	9494.3	9537.3
30°	9180.8	9129.0	9211.2	9279.4	9330.0
32.5°	8942.0	8921.7	8986.2	9058.2	9122.7
35°	8670.2	8665.2	8766.3	8824.4	8868.7
37.5°	8414.9	8397.2	8490.8	8571.6	8605.8
40°	8109.1	8109.1	8197.5	8279.7	8315.1
42.5°	7760.2	7809.5	7877.8	7962.5	7171.3
45°	7426.6	7449.3	7571.9	6706.2	4705.4
47.5°	7105.5	7134.6	7250.9	4311.1	4428.6
50°	6674.6	6806.0	6897.0	4298.5	4558.8
52.5°	6359.9	6416.7	5789.8	4255.5	4402.1
55°	5830.3	6021.1	3700.6	4207.5	4610.6
57.5°	5377.8	5516.8	3638.7	4311.1	4561.3
60°	4848.3	5060.6	3325.3	4159.4	3680.4
62.5°	4340.2	4542.4	3471.9	3273.5	3116.7
65°	3839.7	4065.9	3374.6	2596.0	1903.4
67.5°	3291.1	3080.1	2692.1	1828.8	1924.9
70°	2743.9	2151.1	2069.0	2045.0	1888.2
72.5°	2181.5	1569.7	1373.8	1534.4	1098.3
75°	1654.4	1621.6	1423.1	930.2	990.9
77.5°	1147.6	1170.4	762.1	907.5	753.3
80°	764.6	662.3	690.1	578.9	571.3
82.5°	529.6	540.9	453.7	439.8	446.2
85°	367.8	327.3	319.8	305.9	303.3
87.5°	122.6	142.8	132.7	120.1	127.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)