

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-LD5-36HE-W-AI-UNV-L840-ED3-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-AI-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

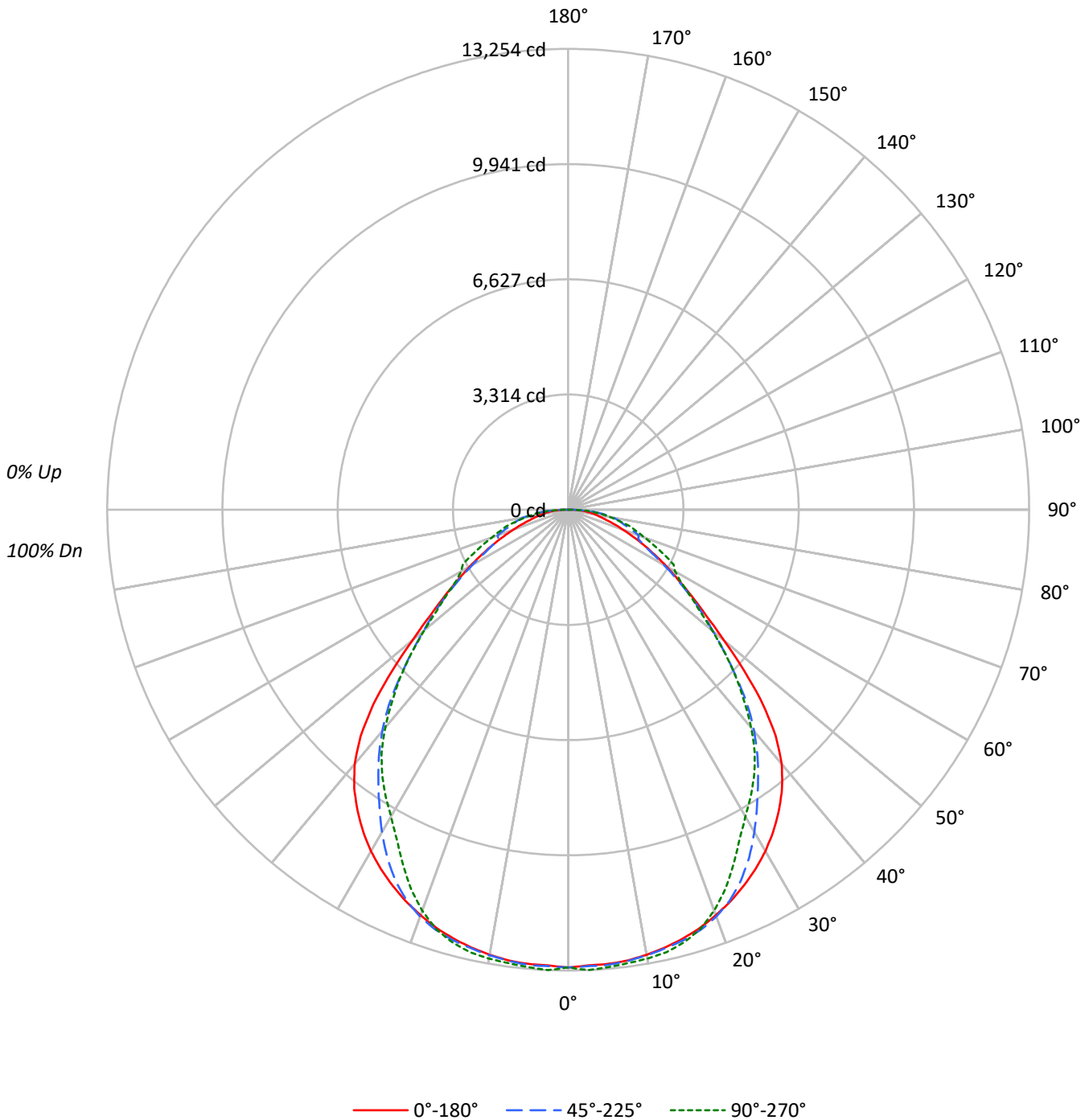
Lumens per Lamp: N/A
Luminaire Lumens: 30474.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55				55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48				48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43				43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38				38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34				34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31				31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29				29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17714	17714	17714
5°	17713	17752	17838
10°	17757	17780	17910
15°	17785	17851	17938
20°	17767	17833	17568
25°	17722	17456	16697
30°	17617	16633	15822
35°	17352	15633	15307
40°	16772	14617	14376
45°	15075	13052	13004
50°	12227	11369	11291
55°	10152	9964	9960
60°	8790	8533	9540
65°	7618	7571	9616
70°	6569	8493	9167
75°	5890	8703	9556
80°	6123	10246	9588
85°	6950	11807	10955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.6	4.1
10°-20°	3620.3	11.9
20°-30°	5377.0	17.6
30°-40°	6104.4	20.0
40°-50°	5457.1	17.9
50°-60°	3773.0	12.4
60°-70°	2489.7	8.2
70°-80°	1679.6	5.5
80°-90°	719.4	2.4
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°	10250.9	33.6
0°-40°	16355.2	53.7
0°-60°	25585.3	84.0
0°-90°	30474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13166	13166	13166	13166	13166	
5°	13115	13196	13143	13197	13208	###
15°	12768	12829	12815	12887	12878	3604
25°	11937	12051	11758	11408	11247	5500
35°	10564	10342	9518	9379	9319	6588
45°	7922	7252	6859	6912	6834	6025
55°	4328	3951	4247	4188	4246	3931
65°	2393	2124	2378	2780	3020	2388
75°	1133	1425	1674	1789	1838	1237
85°	450	626	765	769	710	469
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13165.7	13165.7	13165.7	13165.7	13165.7
2.5°	13121.0	13203.0	13141.9	13198.5	13253.7
5°	13115.0	13195.5	13143.3	13197.0	13207.5
7.5°	13077.8	13152.3	13091.2	13143.3	13155.3
10°	12997.2	13085.2	13013.6	13094.1	13109.1
12.5°	12892.9	12982.3	12919.7	13030.0	13036.0
15°	12767.7	12828.8	12815.4	12886.9	12878.0
17.5°	12609.6	12679.7	12669.3	12687.1	12645.4
20°	12408.4	12487.4	12454.6	12372.6	12269.7
22.5°	12192.2	12287.6	12157.9	11950.7	11806.1
25°	11937.2	12050.6	11758.3	11408.0	11247.0
27.5°	11655.5	11756.9	11270.8	10841.5	10674.5
30°	11339.4	11382.7	10705.8	10297.3	10184.0
32.5°	10974.2	10911.5	10102.0	9832.2	9766.6
35°	10564.2	10342.0	9517.6	9378.9	9319.3
37.5°	10102.0	9695.0	8940.6	8876.5	8813.9
40°	9548.9	8948.1	8321.9	8280.2	8184.8
42.5°	8834.8	8135.6	7634.7	7585.5	7500.5
45°	7922.4	7251.5	6859.4	6911.6	6834.1
47.5°	6872.8	6364.4	6115.5	6258.6	6115.5
50°	5841.2	5499.8	5431.2	5560.9	5393.9
52.5°	4995.8	4688.7	4830.4	4852.7	4752.8
55°	4327.9	3950.8	4247.4	4187.8	4245.9
57.5°	3746.5	3324.6	3689.9	3621.3	3821.1
60°	3266.5	2792.4	3171.0	3156.1	3545.2
62.5°	2795.3	2416.7	2720.8	2940.0	3418.5
65°	2392.8	2124.5	2377.9	2780.4	3020.5
67.5°	2006.7	1905.3	2175.2	2398.8	2661.2
70°	1669.8	1721.9	2158.8	2117.0	2330.2
72.5°	1386.5	1563.9	1905.3	1912.8	2063.3
75°	1133.0	1425.3	1674.2	1789.0	1838.2
77.5°	942.2	1292.6	1511.7	1552.0	1504.3
80°	790.2	1139.0	1322.4	1304.5	1237.4
82.5°	638.1	863.2	1042.1	1058.5	979.5
85°	450.2	626.2	764.8	769.3	709.6
87.5°	241.5	386.1	463.7	477.1	441.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)