

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-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CL-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

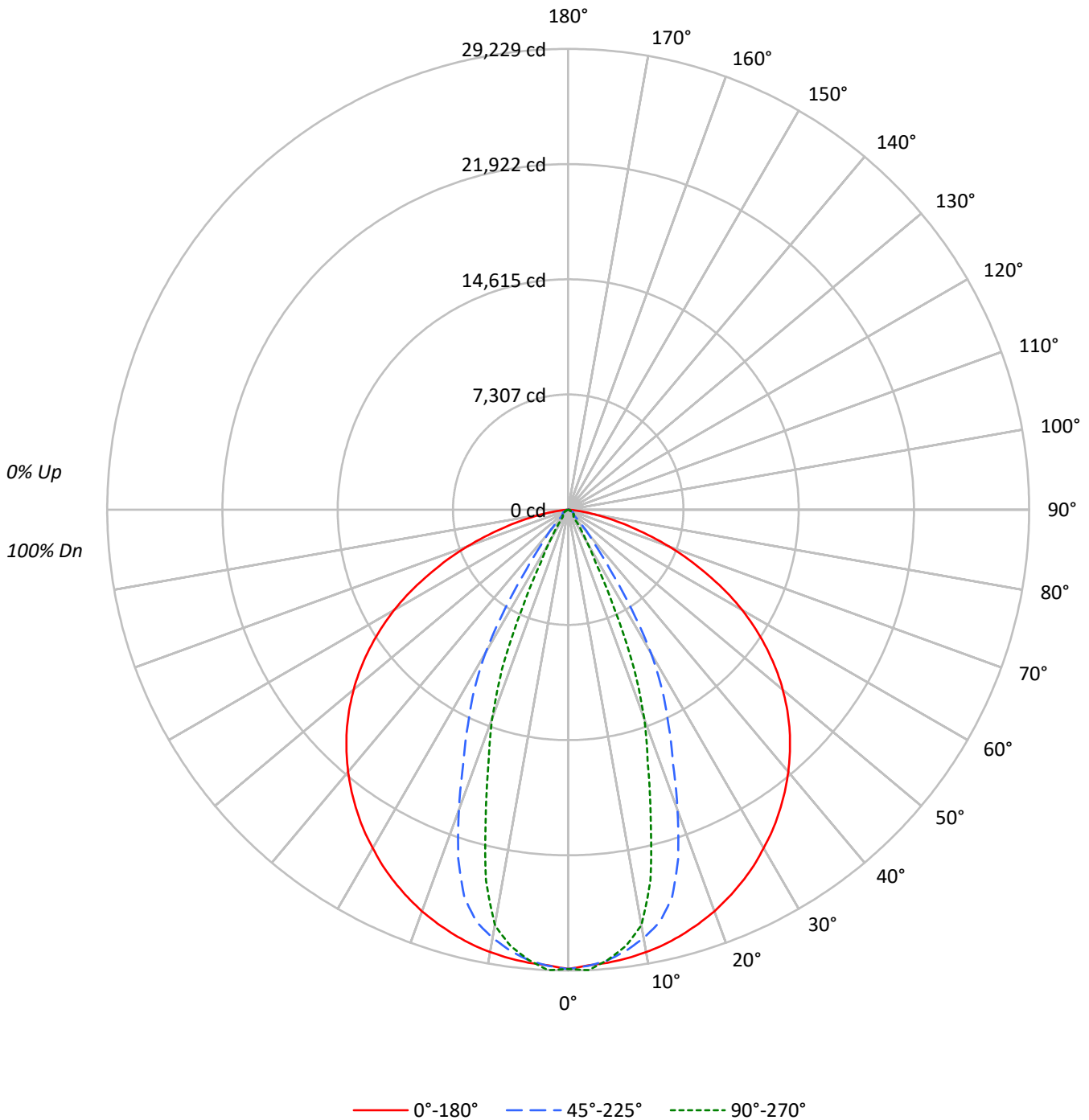
Lumens per Lamp: N/A
Luminaire Lumens: 31156.0 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39196	39196	39196
5°	38956	38752	38724
10°	38929	37681	36569
15°	38885	35434	28118
20°	38809	28997	20169
25°	38687	22341	10249
30°	38504	16305	3729
35°	38367	7488	1298
40°	38131	3399	895
45°	37792	1268	908
50°	37189	921	955
55°	36088	969	727
60°	34294	1035	642
65°	31101	788	522
70°	26665	569	481
75°	20382	504	457
80°	12752	473	497
85°	4028	553	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2712.1	8.7
10°-20°	6832.1	21.9
20°-30°	7440.5	23.9
30°-40°	5565.9	17.9
40°-50°	4002.0	12.8
50°-60°	2457.8	7.9
60°-70°	1414.3	4.5
70°-80°	631.2	2.0
80°-90°	100.1	0.3
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°	16984.7	54.5
0°-40°	22550.6	72.4
0°-60°	29010.4	93.1
0°-90°	31156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31156.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29132	29132	29132	29132	29132	
5°	28842	28978	28692	28719	28671	###
15°	27915	27380	25438	21846	20186	7880
25°	26059	24190	15049	9655	6904	12012
35°	23358	16753	4559	1340	790	14611
45°	19861	9412	666	493	477	15300
55°	15384	1956	413	400	310	13716
65°	9769	215	248	206	164	9670
75°	3921	130	97	100	88	4254
85°	261	25	36	46	43	520
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29131.7	29131.7	29131.7	29131.7	29131.7
2.5°	28928.9	29118.3	28958.8	29101.9	29228.6
5°	28842.5	28978.1	28691.9	28718.8	28671.1
7.5°	28693.4	28726.2	28208.9	28009.2	27912.3
10°	28493.7	28405.7	27579.8	27104.3	26765.9
12.5°	28241.7	27951.0	26797.2	25099.3	24087.1
15°	27915.3	27380.1	25437.7	21846.5	20185.9
17.5°	27526.2	26783.8	23186.7	18207.7	16770.6
20°	27104.3	26124.9	20251.5	15481.1	14085.8
22.5°	26606.4	25282.6	17356.5	12875.4	10959.8
25°	26059.3	24189.9	15048.8	9655.4	6903.5
27.5°	25469.0	22748.4	12912.6	5921.1	3732.8
30°	24783.2	20993.8	10494.7	3322.8	2400.1
32.5°	24113.9	18948.6	7496.8	2213.7	1534.0
35°	23358.1	16752.7	4558.6	1340.2	790.1
37.5°	22557.6	14756.7	2853.2	729.0	545.6
40°	21709.4	12863.4	1935.0	517.3	509.8
42.5°	20803.0	11150.6	1212.0	491.9	508.3
45°	19860.9	9412.4	666.4	493.4	477.0
47.5°	18838.3	7525.2	465.1	466.6	465.1
50°	17766.4	5397.9	439.8	460.6	456.2
52.5°	16611.1	3351.1	441.3	450.2	404.0
55°	15384.2	1955.8	412.9	399.5	310.1
57.5°	14094.8	1219.4	404.0	329.4	278.8
60°	12744.2	644.0	384.6	296.7	238.5
62.5°	11305.6	317.5	308.6	253.4	195.3
65°	9768.7	214.7	247.5	205.7	164.0
67.5°	8283.9	193.8	186.3	168.5	143.1
70°	6778.3	177.4	144.6	147.6	122.2
72.5°	5301.0	161.0	116.3	126.7	102.9
75°	3920.6	129.7	96.9	99.9	88.0
77.5°	2728.0	101.4	76.0	85.0	82.0
80°	1645.8	64.1	61.1	70.1	64.1
82.5°	797.5	41.7	47.7	55.2	50.7
85°	260.9	25.3	35.8	46.2	43.2
87.5°	32.8	14.9	29.8	40.2	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)