

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-UNV-L850-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 (P23767)
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-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

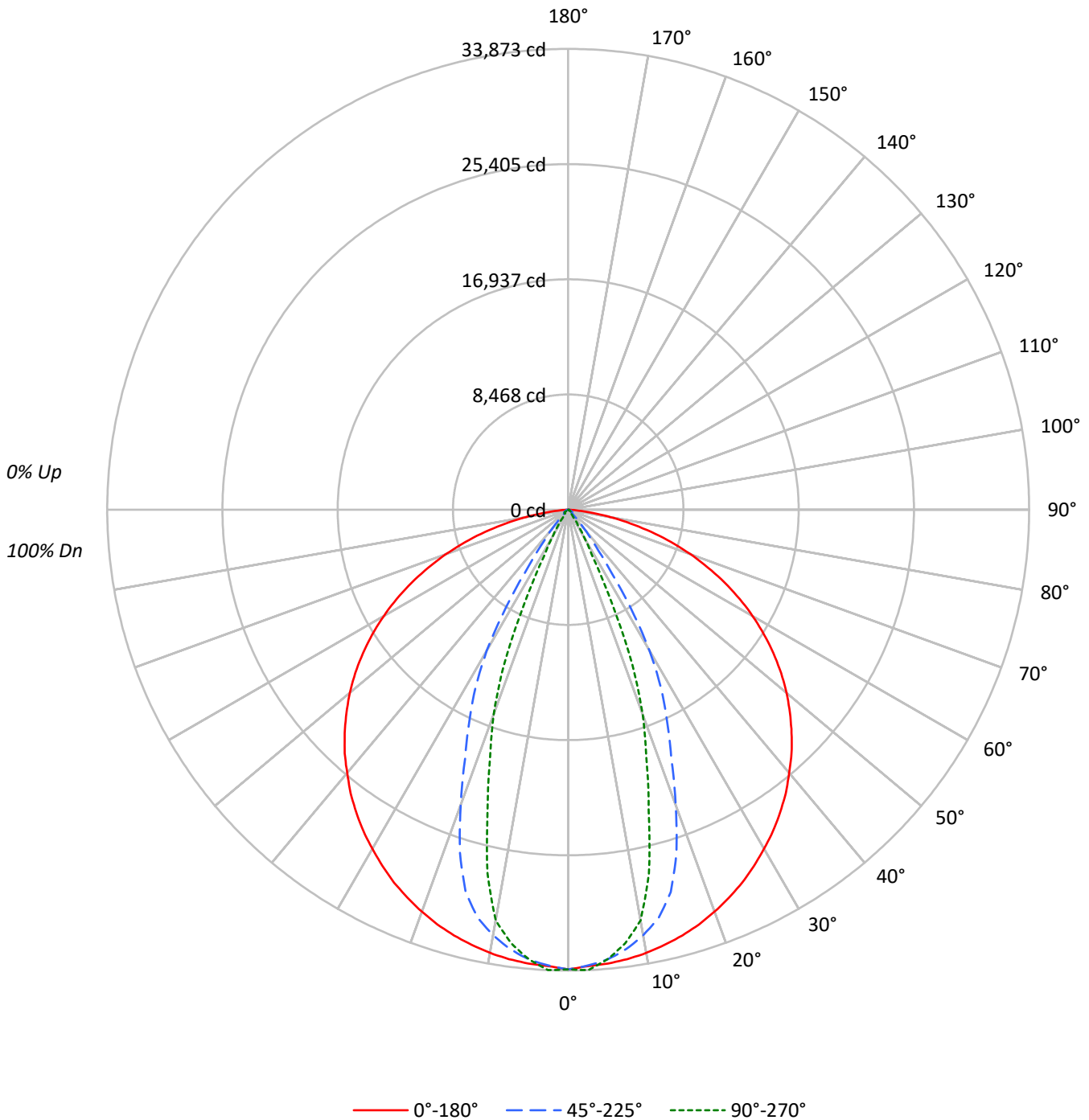
Lumens per Lamp: N/A
Luminaire Lumens: 35916.0 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45466	45466	45466
5°	45223	44823	44804
10°	45194	43387	41865
15°	45131	40534	31861
20°	45026	33043	22934
25°	44911	25550	11298
30°	44712	18569	3664
35°	44607	8238	943
40°	44373	3346	635
45°	44175	939	676
50°	43831	666	750
55°	43199	792	320
60°	42133	882	195
65°	40400	563	230
70°	37532	500	284
75°	32834	376	393
80°	24550	461	560
85°	12160	596	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3135.9	8.7
10°-20°	7841.3	21.8
20°-30°	8493.3	23.6
30°-40°	6289.7	17.5
40°-50°	4530.2	12.6
50°-60°	2805.0	7.8
60°-70°	1725.1	4.8
70°-80°	909.4	2.5
80°-90°	186.1	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°	19470.5	54.2
0°-40°	25760.2	71.7
0°-60°	33095.4	92.1
0°-90°	35916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35916.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33791	33791	33791	33791	33791	
5°	33483	33606	33187	33211	33172	###
15°	32399	31647	29099	24746	22873	9146
25°	30252	27710	17210	10827	7610	13939
35°	27157	19145	5015	1180	574	16990
45°	23216	10786	494	357	355	17904
55°	18416	2222	338	305	137	16440
65°	12690	235	177	112	72	12520
75°	6316	55	72	95	76	6671
85°	788	21	39	58	48	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33791.4	33791.4	33791.4	33791.4	33791.4
2.5°	33574.4	33788.2	33535.8	33723.9	33873.4
5°	33482.8	33606.5	33187.0	33211.1	33172.5
7.5°	33322.0	33293.1	32587.4	32278.7	32143.7
10°	33079.3	32888.0	31756.3	31111.7	30642.3
12.5°	32765.8	32338.2	30719.5	28669.9	27396.7
15°	32399.3	31647.0	29099.1	24746.0	22873.2
17.5°	31962.1	30896.3	26449.9	20740.1	19068.2
20°	31446.1	30058.8	23077.4	17645.6	16017.2
22.5°	30870.6	29039.6	19801.3	14665.3	12342.4
25°	30251.7	27710.2	17210.0	10826.6	7609.9
27.5°	29536.3	26001.4	14779.4	6377.0	3883.7
30°	28779.2	23943.8	11951.8	3430.4	2358.2
32.5°	28015.6	21611.3	8457.1	2142.8	1337.4
35°	27157.2	19145.4	5015.4	1179.9	573.9
37.5°	26261.8	16885.3	2964.2	536.9	368.1
40°	25263.6	14819.6	1904.9	356.9	361.7
42.5°	24299.1	12893.8	1072.2	352.0	358.5
45°	23215.6	10786.4	493.5	356.9	355.3
47.5°	22095.2	8601.8	319.9	360.1	360.1
50°	20939.4	6150.3	318.3	368.1	358.5
52.5°	19719.3	3837.1	331.1	366.5	294.2
55°	18415.6	2221.6	337.6	305.4	136.6
57.5°	17065.3	1310.1	340.8	175.2	77.2
60°	15657.1	725.0	327.9	130.2	72.3
62.5°	14205.5	345.6	258.8	122.2	70.7
65°	12689.7	234.7	176.8	112.5	72.3
67.5°	11115.9	181.6	139.9	106.1	73.9
70°	9540.6	135.0	127.0	106.1	72.3
72.5°	7939.5	91.6	106.1	107.7	72.3
75°	6315.9	54.7	72.3	94.8	75.6
77.5°	4706.8	33.8	56.3	98.1	91.6
80°	3168.4	28.9	59.5	91.6	72.3
82.5°	1859.9	25.7	57.9	70.7	57.9
85°	787.7	20.9	38.6	57.9	48.2
87.5°	147.9	17.7	30.5	46.6	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)