

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-LD5-36SE-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLI-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

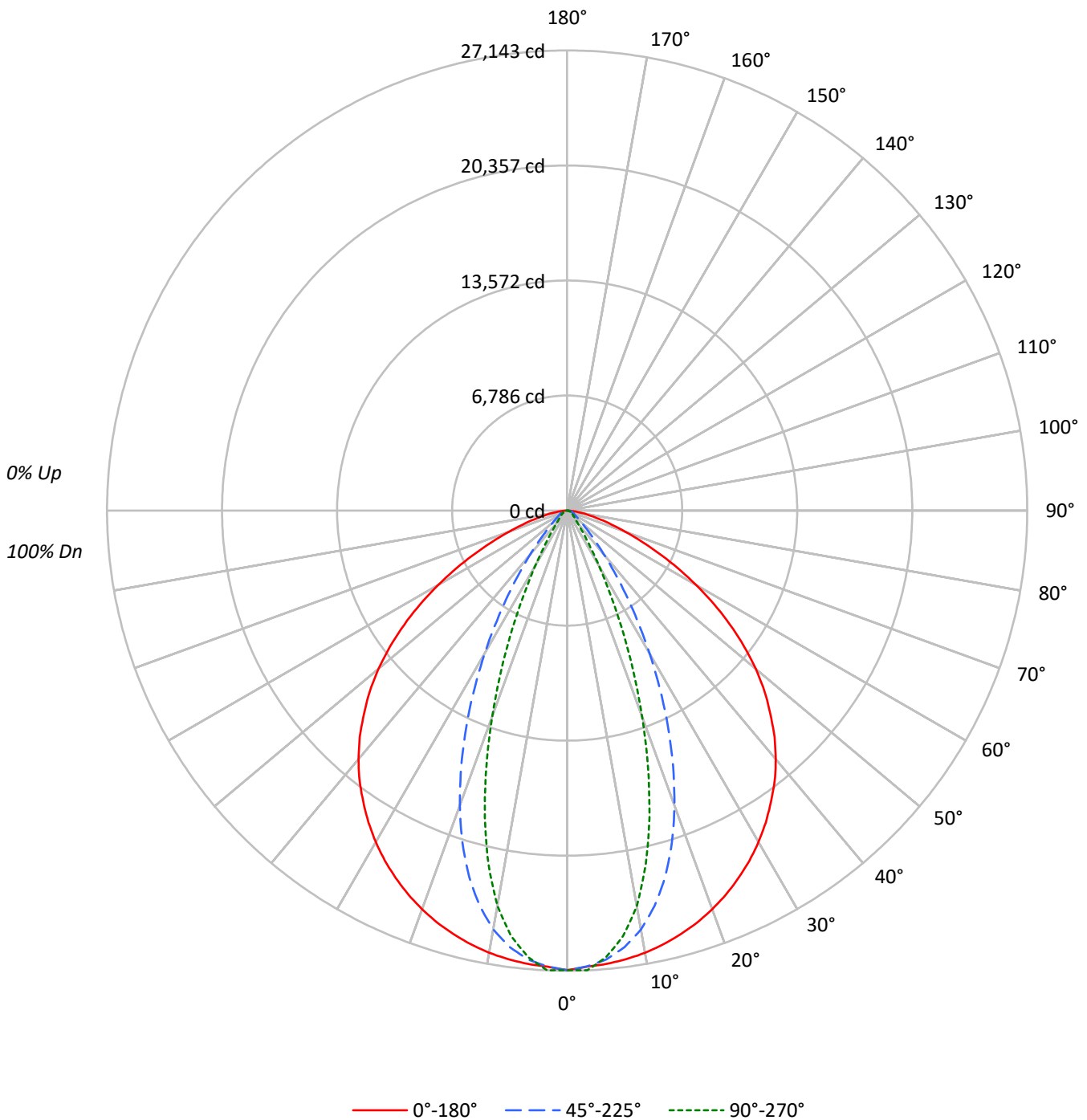
Lumens per Lamp: N/A
Luminaire Lumens: 29675.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36471	36471	36471
5°	36251	35891	35702
10°	36191	34266	32335
15°	36045	31147	26114
20°	35829	26503	18508
25°	35508	20898	11182
30°	35077	15083	5747
35°	34444	9861	2870
40°	33627	5923	1675
45°	32230	3537	1252
50°	30398	2313	1052
55°	27512	1755	918
60°	23643	1495	837
65°	19018	1364	791
70°	14327	1460	786
75°	10539	1388	809
80°	7710	1383	885
85°	5775	1675	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2496.3	8.4
10°-20°	6210.3	20.9
20°-30°	6878.8	23.2
30°-40°	5511.2	18.6
40°-50°	3934.2	13.3
50°-60°	2527.0	8.5
60°-70°	1369.5	4.6
70°-80°	585.3	2.0
80°-90°	162.3	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°	15585.4	52.5
0°-40°	21096.6	71.1
0°-60°	27557.8	92.9
0°-90°	29675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27106	27106	27106	27106	27106	
5°	26840	26940	26573	26489	26434	###
15°	25877	25067	22360	19760	18747	7301
25°	23918	21090	14077	9171	7532	11019
35°	20970	15168	6003	2421	1748	13111
45°	16938	8756	1859	791	658	13056
55°	11728	3915	748	460	391	10452
65°	5973	1608	428	296	248	5982
75°	2027	588	267	186	156	2253
85°	374	156	108	90	74	457
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27106.0	27106.0	27106.0	27106.0	27106.0
2.5°	26927.5	27096.0	26914.7	27027.4	27143.1
5°	26840.4	26940.4	26573.4	26489.2	26433.5
7.5°	26689.1	26660.5	25971.0	25524.1	25308.5
10°	26489.2	26257.9	25080.1	24097.8	23666.7
12.5°	26203.7	25726.8	23873.7	22149.1	21418.1
15°	25876.7	25067.2	22360.4	19760.5	18746.9
17.5°	25485.5	24296.3	20551.5	17199.3	15861.5
20°	25023.0	23365.4	18509.9	14478.1	12926.2
22.5°	24506.2	22291.8	16324.1	11765.5	10100.8
25°	23918.0	21089.7	14076.9	9171.4	7532.4
27.5°	23282.6	19754.8	11842.6	6852.9	5358.1
30°	22577.4	18310.0	9708.2	4941.2	3699.1
32.5°	21807.8	16773.8	7725.2	3475.0	2529.9
35°	20969.8	15167.7	6003.4	2421.3	1747.5
37.5°	20111.8	13528.7	4534.3	1711.8	1253.5
40°	19145.2	11895.4	3372.2	1253.5	953.7
42.5°	18107.3	10293.6	2495.6	965.1	772.4
45°	16938.0	8756.0	1858.8	790.9	658.2
47.5°	15804.4	7322.6	1412.0	673.9	572.5
50°	14522.4	6029.1	1105.0	588.2	502.5
52.5°	13161.8	4891.2	896.6	518.2	442.6
55°	11728.4	3914.7	748.1	459.7	391.2
57.5°	10276.5	3100.9	639.6	409.7	348.4
60°	8786.0	2479.9	555.4	366.9	311.2
62.5°	7331.1	1983.1	485.4	329.8	278.4
65°	5973.4	1607.6	428.3	295.5	248.4
67.5°	4718.5	1270.6	399.8	265.5	224.1
70°	3642.0	989.4	371.2	237.0	199.9
72.5°	2759.7	759.5	328.4	211.3	177.0
75°	2027.3	588.2	267.0	185.6	155.6
77.5°	1450.5	452.6	217.0	161.3	134.2
80°	995.1	336.9	178.5	138.5	114.2
82.5°	646.7	238.4	144.2	114.2	94.2
85°	374.1	155.6	108.5	89.9	74.2
87.5°	161.3	85.7	74.2	67.1	57.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)