

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-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-LD5-36SE-N-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

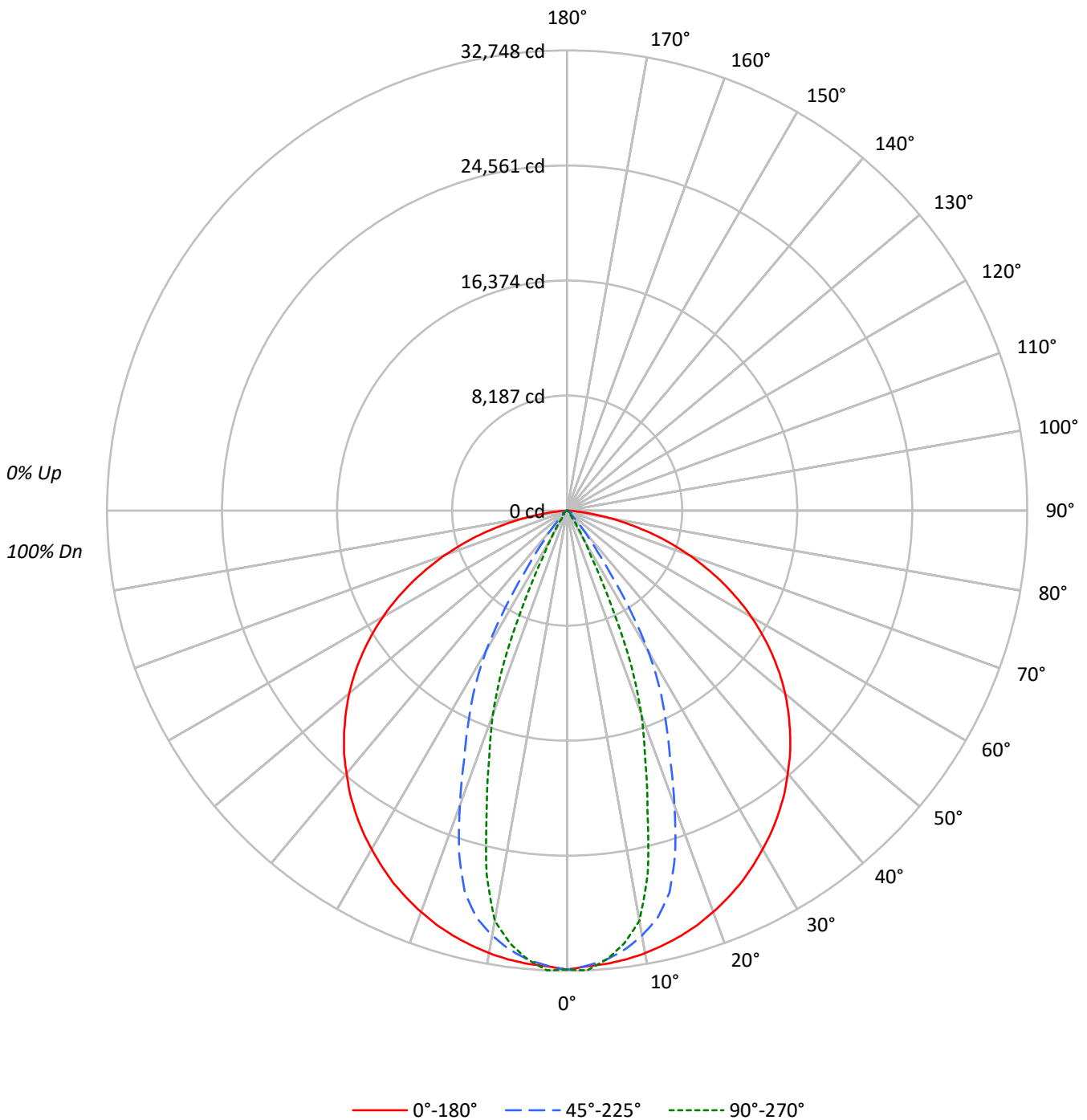
Lumens per Lamp: N/A
Luminaire Lumens: 34723.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	43956	43956	43956
5°	43721	43334	43315
10°	43693	41946	40474
15°	43632	39187	30803
20°	43530	31945	22172
25°	43419	24701	10922
30°	43227	17952	3542
35°	43125	7964	911
40°	42899	3235	614
45°	42708	908	654
50°	42375	644	726
55°	41764	766	310
60°	40733	853	188
65°	39058	544	223
70°	36286	483	275
75°	31743	363	379
80°	23735	446	542
85°	11756	576	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3031.7	8.7
10°-20°	7580.8	21.8
20°-30°	8211.2	23.6
30°-40°	6080.8	17.5
40°-50°	4379.7	12.6
50°-60°	2711.9	7.8
60°-70°	1667.8	4.8
70°-80°	879.2	2.5
80°-90°	179.9	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°	18823.8	54.2
0°-40°	24904.5	71.7
0°-60°	31996.1	92.1
0°-90°	34723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32669	32669	32669	32669	32669	
5°	32371	32490	32085	32108	32071	###
15°	31323	30596	28132	23924	22114	8842
25°	29247	26790	16638	10467	7357	13476
35°	26255	18510	4849	1141	555	16426
45°	22444	10428	477	345	344	17309
55°	17804	2148	326	295	132	15894
65°	12268	227	171	109	70	12104
75°	6106	53	70	92	73	6449
85°	762	20	37	56	47	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32669.0	32669.0	32669.0	32669.0	32669.0
2.5°	32459.2	32665.9	32421.9	32603.7	32748.2
5°	32370.6	32490.3	32084.6	32107.9	32070.6
7.5°	32215.2	32187.2	31504.9	31206.6	31076.0
10°	31980.5	31795.6	30701.5	30078.3	29624.5
12.5°	31677.5	31264.1	29699.1	27717.6	26486.7
15°	31323.1	30595.8	28132.5	23924.0	22113.5
17.5°	30900.4	29870.0	25571.3	20051.1	18434.9
20°	30401.5	29060.3	22310.8	17059.5	15485.2
22.5°	29845.2	28075.0	19143.5	14178.2	11932.5
25°	29246.8	26789.8	16638.3	10466.9	7357.2
27.5°	28555.2	25137.8	14288.5	6165.2	3754.7
30°	27823.3	23148.5	11554.8	3316.5	2279.9
32.5°	27085.1	20893.5	8176.2	2071.6	1293.0
35°	26255.2	18509.5	4848.8	1140.7	554.8
37.5°	25389.5	16324.4	2865.8	519.1	355.9
40°	24424.4	14327.4	1841.6	345.0	349.7
42.5°	23491.9	12465.5	1036.6	340.4	346.6
45°	22444.5	10428.1	477.1	345.0	343.5
47.5°	21361.3	8316.1	309.3	348.1	348.1
50°	20243.9	5946.0	307.7	355.9	346.6
52.5°	19064.3	3709.7	320.1	354.3	284.4
55°	17803.9	2147.8	326.4	295.3	132.1
57.5°	16498.4	1266.6	329.5	169.4	74.6
60°	15137.0	700.9	317.0	125.9	69.9
62.5°	13733.7	334.1	250.2	118.1	68.4
65°	12268.2	226.9	171.0	108.8	69.9
67.5°	10746.7	175.6	135.2	102.6	71.5
70°	9223.7	130.5	122.8	102.6	69.9
72.5°	7675.8	88.6	102.6	104.1	69.9
75°	6106.1	52.8	69.9	91.7	73.0
77.5°	4550.4	32.6	54.4	94.8	88.6
80°	3063.2	28.0	57.5	88.6	69.9
82.5°	1798.1	24.9	55.9	68.4	55.9
85°	761.5	20.2	37.3	55.9	46.6
87.5°	143.0	17.1	29.5	45.1	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)