

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-LD5-60SE-W-CLI-UNV-L840-ED4-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-CLI-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

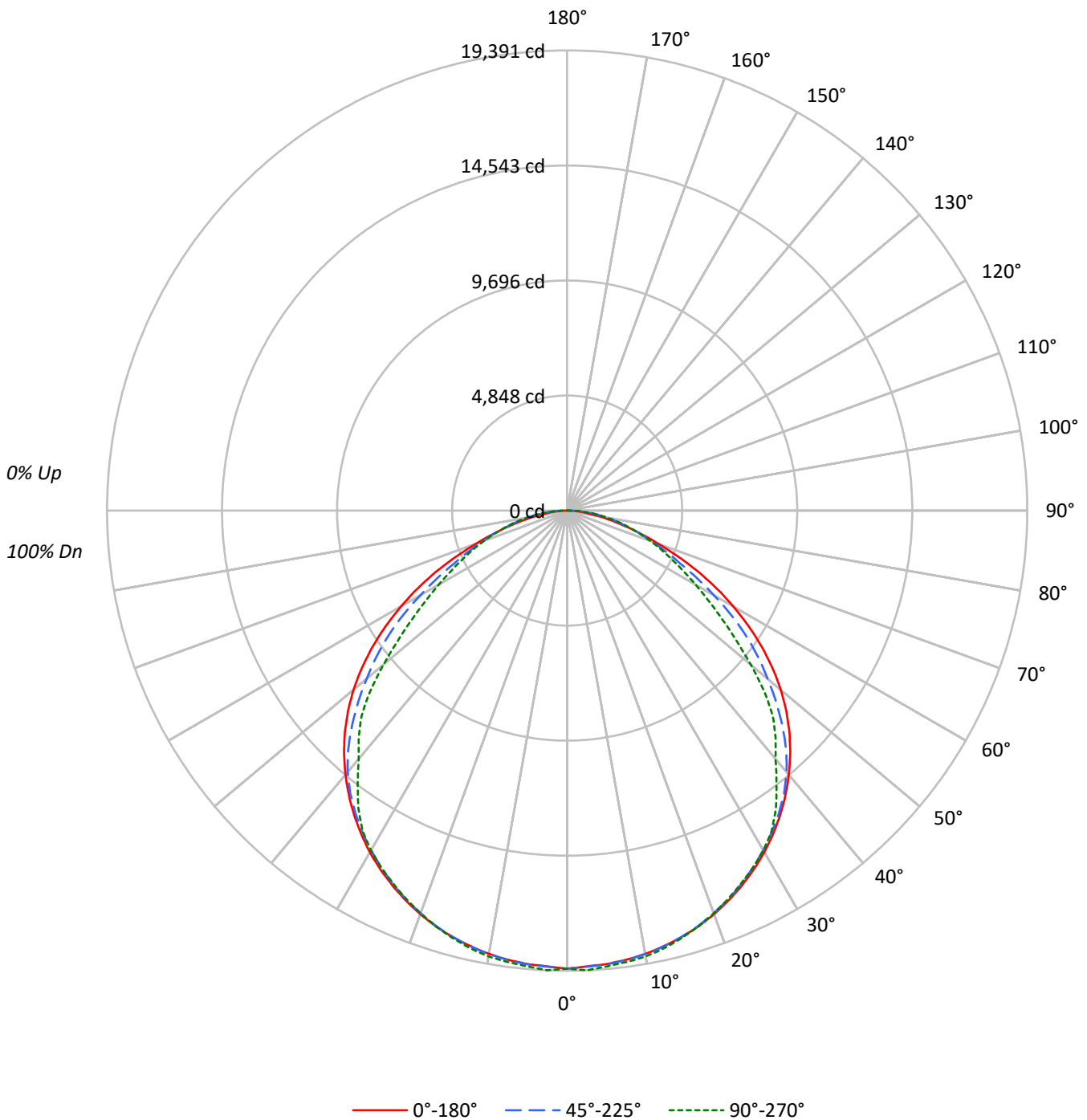
Lumens per Lamp: N/A
Luminaire Lumens: 51860.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25971	25971	25971
5°	25902	25920	26036
10°	25916	25929	26065
15°	25919	25916	25977
20°	25913	25853	25860
25°	25873	25777	25746
30°	25831	25676	25691
35°	25711	25551	25189
40°	25527	25267	23993
45°	25203	24396	23329
50°	24597	23098	21129
55°	23477	21602	18683
60°	21787	19274	16849
65°	19365	16688	15493
70°	16071	14914	14604
75°	12998	13648	13817
80°	10324	13053	12999
85°	8085	14024	13378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1830.6	3.5
10°-20°	5265.4	10.2
20°-30°	8028.8	15.5
30°-40°	9713.7	18.7
40°-50°	9839.1	19.0
50°-60°	8132.3	15.7
60°-70°	5371.2	10.4
70°-80°	2800.8	5.4
80°-90°	878.0	1.7
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°	15124.8	29.2
0°-40°	24838.6	47.9
0°-60°	42810.0	82.5
0°-90°	51860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	51860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19303	19303	19303	19303	19303	
5°	19178	19293	19191	19275	19277	###
15°	18607	18702	18605	18663	18649	5254
25°	17428	17498	17363	17407	17342	8036
35°	15653	15674	15556	15535	15336	9791
45°	13245	13211	12821	12423	12260	10199
55°	10008	9860	9209	8314	7964	8920
65°	6083	5907	5242	4901	4866	6008
75°	2500	2544	2625	2660	2658	2724
85°	524	674	908	901	867	636
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19302.6	19302.6	19302.6	19302.6	19302.6
2.5°	19221.5	19335.0	19240.0	19323.4	19390.6
5°	19177.5	19293.3	19191.4	19274.8	19277.1
7.5°	19091.7	19207.6	19103.3	19186.7	19184.4
10°	18968.9	19077.8	18978.2	19077.8	19077.8
12.5°	18802.1	18908.7	18811.3	18904.0	18890.1
15°	18607.4	18702.4	18605.1	18663.0	18649.1
17.5°	18378.0	18463.7	18354.8	18403.5	18375.7
20°	18097.6	18176.4	18055.9	18118.5	18060.5
22.5°	17782.5	17856.6	17733.8	17780.2	17715.3
25°	17427.9	17497.5	17363.1	17407.1	17342.2
27.5°	17045.6	17108.2	16957.5	17010.8	16959.9
30°	16626.2	16656.3	16526.5	16596.1	16535.8
32.5°	16158.1	16176.6	16063.1	16125.7	16023.7
35°	15652.9	15673.8	15555.6	15534.8	15335.5
37.5°	15113.0	15122.3	15011.1	14823.4	14494.3
40°	14533.7	14529.1	14385.4	13952.1	13660.1
42.5°	13915.0	13912.7	13660.1	13166.5	12999.7
45°	13245.3	13210.6	12821.3	12422.7	12260.5
47.5°	12527.0	12489.9	11945.4	11627.9	11259.5
50°	11750.7	11685.8	11034.7	10601.4	10093.9
52.5°	10914.2	10814.5	10151.8	9452.0	8972.3
55°	10008.1	9859.8	9208.7	8314.2	7964.3
57.5°	9065.0	8844.9	8212.3	7341.0	7056.0
60°	8096.4	7850.8	7162.6	6446.6	6261.2
62.5°	7100.0	6856.7	6154.6	5614.7	5512.7
65°	6082.7	5906.6	5241.6	4901.0	4866.2
67.5°	5040.0	4977.4	4470.0	4296.2	4282.3
70°	4085.3	4073.7	3791.0	3702.9	3712.2
72.5°	3265.0	3251.1	3209.4	3165.3	3167.7
75°	2500.3	2544.3	2625.4	2660.2	2657.9
77.5°	1865.4	1955.7	2127.2	2196.7	2185.2
80°	1332.4	1466.8	1684.6	1749.5	1677.7
82.5°	887.5	1028.9	1286.1	1295.3	1237.4
85°	523.7	674.3	908.4	901.4	866.6
87.5°	259.5	405.5	544.6	521.4	498.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)