

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-LD5-30HE-N-CL-UNV-L735-ED2-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-LD5-30HE-N-CL-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

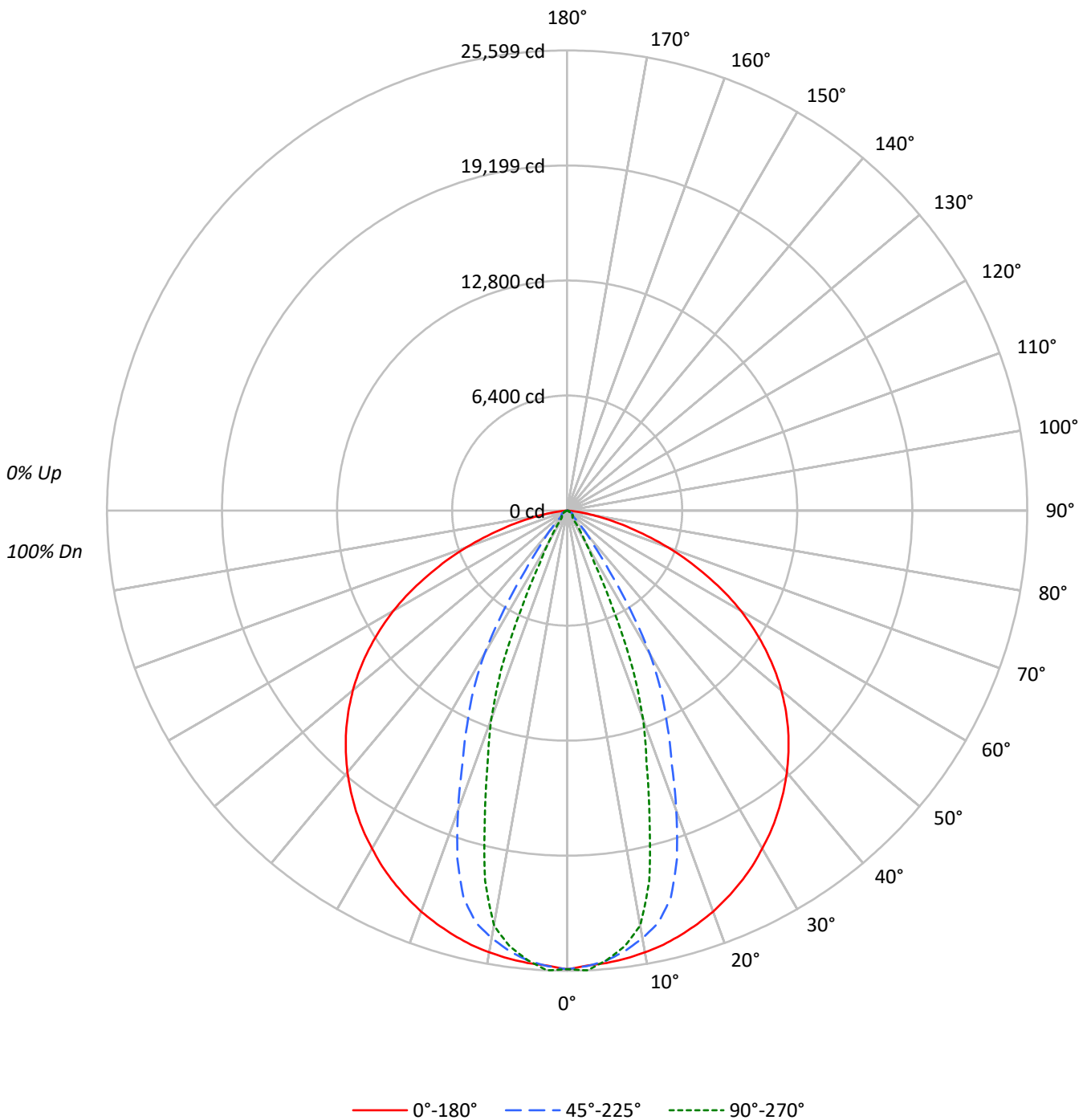
Lumens per Lamp: N/A
Luminaire Lumens: 27287.0 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34329	34329	34329
5°	34118	33940	33915
10°	34095	33002	32028
15°	34056	31033	24626
20°	33990	25396	17664
25°	33883	19567	8976
30°	33723	14280	3266
35°	33602	6558	1137
40°	33396	2977	784
45°	33098	1110	795
50°	32571	806	836
55°	31607	848	637
60°	30036	906	562
65°	27238	690	457
70°	23354	498	421
75°	17850	441	400
80°	11168	415	435
85°	3528	483	585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2375.3	8.7
10°-20°	5983.7	21.9
20°-30°	6516.5	23.9
30°-40°	4874.7	17.9
40°-50°	3505.0	12.8
50°-60°	2152.6	7.9
60°-70°	1238.6	4.5
70°-80°	552.9	2.0
80°-90°	87.7	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°	14875.5	54.5
0°-40°	19750.2	72.4
0°-60°	25407.8	93.1
0°-90°	27287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25514	25514	25514	25514	25514	
5°	25261	25380	25129	25152	25111	###
15°	24449	23980	22279	19134	17679	6902
25°	22823	21186	13180	8456	6046	10521
35°	20458	14672	3992	1174	692	12797
45°	17394	8244	584	432	418	13400
55°	13474	1713	362	350	272	12013
65°	8556	188	217	180	144	8469
75°	3434	114	85	88	77	3726
85°	228	22	31	40	38	455
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25514.1	25514.1	25514.1	25514.1	25514.1
2.5°	25336.5	25502.3	25362.6	25488.0	25598.9
5°	25260.8	25379.6	25128.9	25152.4	25110.6
7.5°	25130.2	25158.9	24705.9	24530.9	24446.1
10°	24955.3	24878.2	24154.9	23738.4	23442.1
12.5°	24734.6	24480.0	23469.5	21982.4	21095.9
15°	24448.7	23980.0	22278.8	19133.6	17679.2
17.5°	24107.9	23457.7	20307.3	15946.6	14688.0
20°	23738.4	22880.7	17736.6	13558.7	12336.6
22.5°	23302.4	22143.0	15201.1	11276.5	9598.8
25°	22823.2	21186.0	13180.0	8456.4	6046.2
27.5°	22306.2	19923.5	11309.1	5185.8	3269.2
30°	21705.6	18386.8	9191.4	2910.2	2102.0
32.5°	21119.4	16595.5	6565.9	1938.8	1343.5
35°	20457.5	14672.4	3992.5	1173.7	692.0
37.5°	19756.4	12924.2	2498.9	638.4	477.9
40°	19013.5	11266.0	1694.7	453.0	446.5
42.5°	18219.7	9765.9	1061.5	430.8	445.2
45°	17394.5	8243.6	583.6	432.2	417.8
47.5°	16498.9	6590.7	407.3	408.7	407.3
50°	15560.2	4727.6	385.2	403.4	399.5
52.5°	14548.3	2935.0	386.5	394.3	353.8
55°	13473.8	1712.9	361.7	349.9	271.6
57.5°	12344.5	1068.0	353.8	288.5	244.1
60°	11161.6	564.0	336.8	259.8	208.9
62.5°	9901.7	278.1	270.3	222.0	171.0
65°	8555.6	188.0	216.7	180.2	143.6
67.5°	7255.2	169.7	163.2	147.5	125.3
70°	5936.6	155.4	126.6	129.3	107.1
72.5°	4642.7	141.0	101.8	111.0	90.1
75°	3433.7	113.6	84.9	87.5	77.0
77.5°	2389.3	88.8	66.6	74.4	71.8
80°	1441.4	56.1	53.5	61.4	56.1
82.5°	698.5	36.6	41.8	48.3	44.4
85°	228.5	22.2	31.3	40.5	37.9
87.5°	28.7	13.1	26.1	35.3	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)