Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P730278

Luminaire Tested: **HBLED-LD5-12HE-W-CLI-UNV-L840**

Issue Date: 11/13/2023

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Test Information

Test Method:	LM-79-08
Report Number:	P730278
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab:	INNOVATION CENTER
Issue Date:	11/13/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	HBLED-LD5-12HE-W-CLI-UNV-L840
Description:	12000 LUMEN, HE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11586.0 lumens
Efficiency:	N/A
Efficacy:	159.4 lumens/watt
Spacing Criteria (0/90/45):	1.28 / 1.27 / 1.37
Luminous Opening:	Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	72.7
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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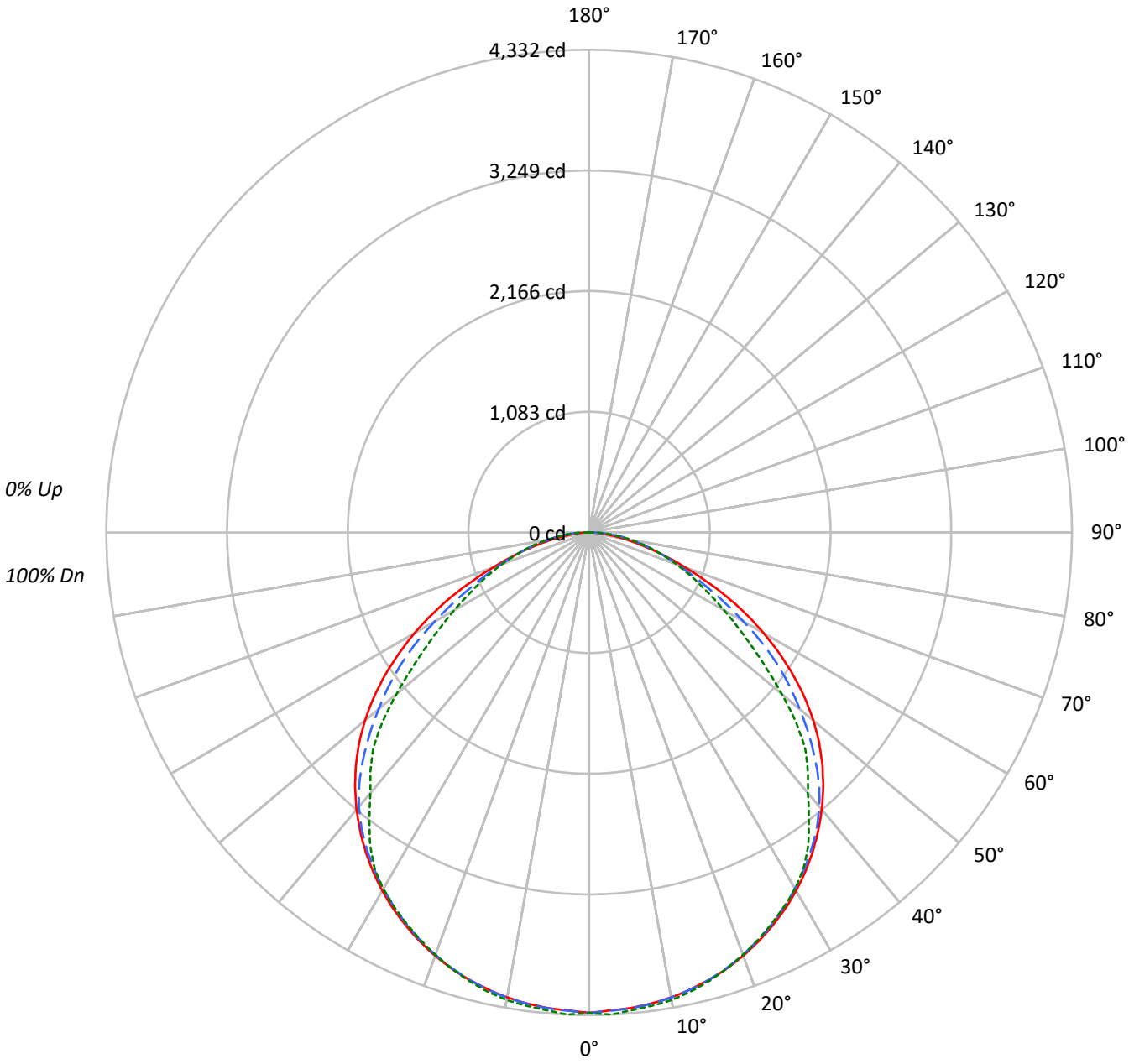
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6963	6963	6963
5°	6944	6949	6980
10°	6948	6951	6988
15°	6949	6948	6964
20°	6947	6931	6933
25°	6936	6911	6902
30°	6925	6884	6888
35°	6893	6850	6753
40°	6844	6774	6432
45°	6757	6540	6254
50°	6594	6192	5664
55°	6294	5791	5009
60°	5841	5167	4517
65°	5192	4474	4154
70°	4309	3998	3915
75°	3485	3659	3704
80°	2768	3500	3485
85°	2167	3759	3587

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.0	3.5
10°-20°	1176.3	10.2
20°-30°	1793.7	15.5
30°-40°	2170.1	18.7
40°-50°	2198.2	19.0
50°-60°	1816.8	15.7
60°-70°	1200.0	10.4
70°-80°	625.7	5.4
80°-90°	196.2	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°	3379.0	29.2
0°-40°	5549.2	47.9
0°-60°	9564.1	82.5
0°-90°	11586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4312	4312	4312	4312	4312	
5°	4284	4310	4288	4306	4307	408
15°	4157	4178	4157	4170	4166	1174
25°	3894	3909	3879	3889	3874	1795
35°	3497	3502	3475	3471	3426	2187
45°	2959	2951	2864	2775	2739	2279
55°	2236	2203	2057	1858	1779	1993
65°	1359	1320	1171	1095	1087	1342
75°	559	568	586	594	594	609
85°	117	151	203	201	194	142
90°	0	0	0	0	0	

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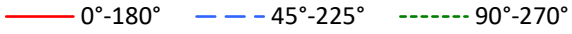
CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4312.3	4312.3	4312.3	4312.3	*4312.3*
2.5°	*4294.3*	*4319.6*	*4298.4*	*4317.0*	*4332.0*
5°	4284.4	4310.3	4287.5	4306.2	*4306.7*
7.5°	4265.3	4291.2	4267.8	4286.5	*4286.0*
10°	4237.8	4262.2	4239.9	4262.2	*4262.2*
12.5°	4200.6	4224.4	4202.6	4223.3	*4220.2*
15°	4157.1	4178.3	4156.6	4169.5	*4166.4*
17.5°	4105.8	4125.0	4100.6	4111.5	*4105.3*
20°	4043.2	4060.8	4033.9	4047.9	*4034.9*
22.5°	3972.7	3989.3	3961.9	3972.3	*3957.7*
25°	3893.6	3909.1	3879.1	3888.9	*3874.4*
27.5°	3808.1	3822.1	3788.4	3800.4	*3789.0*
30°	3714.4	3721.2	3692.2	3707.7	*3694.3*
32.5°	3609.9	3614.0	3588.6	3602.6	*3579.8*
35°	3497.0	3501.7	3475.3	3470.6	*3426.1*
37.5°	3376.4	3378.5	3353.6	3311.7	*3238.2*
40°	3247.0	3245.9	3213.8	3117.0	*3051.8*
42.5°	3108.7	3108.2	3051.8	2941.5	*2904.3*
45°	2959.1	2951.4	2864.4	2775.3	*2739.1*
47.5°	2798.7	2790.4	2668.7	2597.8	*2515.5*
50°	2625.2	2610.7	2465.2	2368.4	*2255.1*
52.5°	2438.3	2416.0	2268.0	2111.7	*2004.5*
55°	2235.9	2202.8	2057.3	1857.5	*1779.3*
57.5°	2025.2	1976.0	1834.7	1640.1	*1576.4*
60°	1808.8	1753.9	1600.2	1440.2	*1398.8*
62.5°	1586.2	1531.9	1375.0	1254.4	*1231.6*
65°	1358.9	1319.6	1171.0	1094.9	*1087.2*
67.5°	1126.0	1112.0	998.6	959.8	*956.7*
70°	912.7	910.1	846.9	827.3	*829.3*
72.5°	729.4	726.3	717.0	707.2	*707.7*
75°	558.6	568.4	586.5	594.3	*593.8*
77.5°	416.7	436.9	475.2	490.8	*488.2*
80°	297.7	327.7	376.4	390.9	*374.8*
82.5°	198.3	229.9	287.3	289.4	*276.4*
85°	117.0	150.6	202.9	201.4	*193.6*
87.5°	58.0	90.6	121.7	116.5	*111.3*
90°	0.0	0.0	0.0	0.0	*0.0*

Report Generated By 670246072 / DESKTOP-MV3F9LC


0°-180°
45°-225°
90°-270°

(END OF REPORT)