

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: P730351

Luminaire Tested: **HBLED-LD5-12SE-W-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730351
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-LD5-12SE-W-CLI-UNV-L850
Description: 12000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11569.0 lumens
Efficiency: N/A
Efficacy: 154.3 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

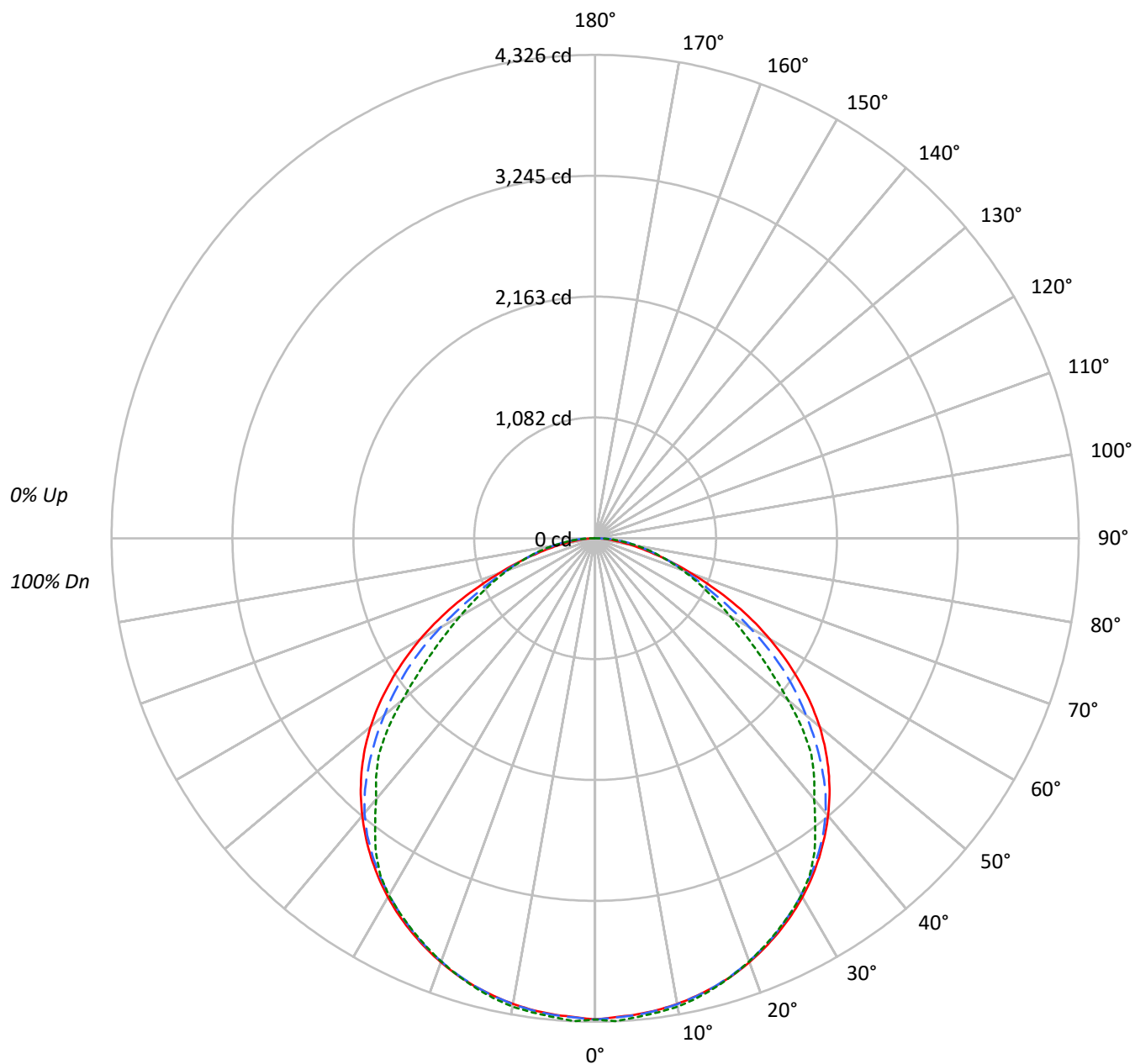
Input Watts (W): 75
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	6952	6952	6952
5°	6934	6939	6970
10°	6938	6941	6978
15°	6939	6938	6954
20°	6937	6921	6922
25°	6926	6900	6892
30°	6915	6874	6877
35°	6883	6840	6743
40°	6834	6764	6423
45°	6747	6531	6245
50°	6585	6183	5656
55°	6285	5783	5001
60°	5833	5160	4510
65°	5184	4467	4147
70°	4302	3992	3909
75°	3480	3654	3699
80°	2764	3494	3480
85°	2164	3753	3581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.4	3.5
10°-20°	1174.6	10.2
20°-30°	1791.1	15.5
30°-40°	2167.0	18.7
40°-50°	2194.9	19.0
50°-60°	1814.2	15.7
60°-70°	1198.2	10.4
70°-80°	624.8	5.4
80°-90°	195.9	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°	3374.1	29.2
0°-40°	5541.0	47.9
0°-60°	9550.1	82.5
0°-90°	11569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4306	4306	4306	4306	4306	
5°	4278	4304	4281	4300	4300	407
15°	4151	4172	4150	4163	4160	1172
25°	3888	3903	3873	3883	3869	1793
35°	3492	3496	3470	3466	3421	2184
45°	2955	2947	2860	2771	2735	2275
55°	2233	2200	2054	1855	1777	1990
65°	1357	1318	1169	1093	1086	1340
75°	558	568	586	593	593	608
85°	117	150	203	201	193	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4306.0	4306.0	4306.0	4306.0	4306.0
2.5°	4288.0	4313.3	4292.1	4310.7	4325.7
5°	4278.1	4304.0	4281.2	4299.9	4300.4
7.5°	4259.0	4284.9	4261.6	4280.2	4279.7
10°	4231.6	4255.9	4233.7	4255.9	4255.9
12.5°	4194.4	4218.2	4196.5	4217.1	4214.0
15°	4151.0	4172.2	4150.5	4163.4	4160.3
17.5°	4099.8	4118.9	4094.6	4105.5	4099.3
20°	4037.2	4054.8	4028.0	4041.9	4028.9
22.5°	3966.9	3983.5	3956.1	3966.4	3951.9
25°	3887.9	3903.4	3873.4	3883.2	3868.7
27.5°	3802.5	3816.5	3782.9	3794.8	3783.4
30°	3709.0	3715.7	3686.8	3702.3	3688.9
32.5°	3604.6	3608.7	3583.4	3597.3	3574.6
35°	3491.9	3496.5	3470.2	3465.5	3421.1
37.5°	3371.4	3373.5	3348.7	3306.8	3233.4
40°	3242.2	3241.2	3209.1	3112.5	3047.3
42.5°	3104.2	3103.7	3047.3	2937.2	2900.0
45°	2954.8	2947.0	2860.2	2771.3	2735.1
47.5°	2794.6	2786.3	2664.8	2594.0	2511.8
50°	2621.4	2606.9	2461.6	2364.9	2251.8
52.5°	2434.8	2412.5	2264.7	2108.6	2001.6
55°	2232.6	2199.5	2054.3	1854.8	1776.7
57.5°	2022.3	1973.1	1832.0	1637.7	1574.1
60°	1806.2	1751.4	1597.8	1438.1	1396.7
62.5°	1583.9	1529.6	1373.0	1252.5	1229.8
65°	1357.0	1317.6	1169.3	1093.3	1085.6
67.5°	1124.3	1110.4	997.1	958.4	955.3
70°	911.4	908.8	845.7	826.0	828.1
72.5°	728.4	725.3	716.0	706.1	706.6
75°	557.8	567.6	585.7	593.4	592.9
77.5°	416.1	436.3	474.5	490.0	487.4
80°	297.3	327.2	375.8	390.3	374.3
82.5°	198.0	229.5	286.9	289.0	276.0
85°	116.8	150.4	202.6	201.1	193.3
87.5°	57.9	90.5	121.5	116.3	111.2
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)