

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: P731166

Luminaire Tested: **HBLED-LD5-60SE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-N-CLI-UNV-L840
Description: 60000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52961.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

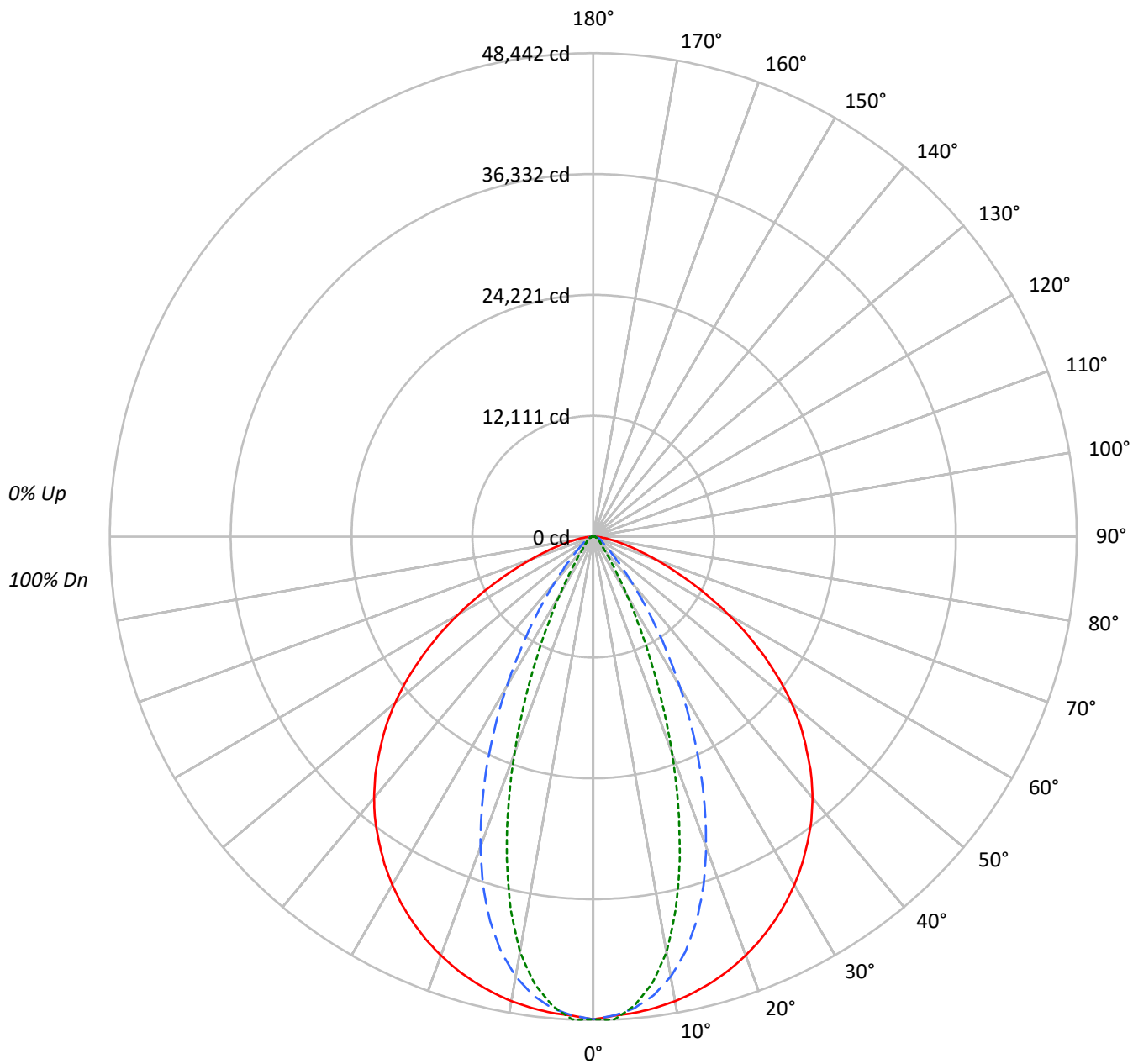
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	78107	78107	78107
5°	77638	76865	76461
10°	77507	73384	69249
15°	77196	66705	55926
20°	76733	56760	39638
25°	76046	44757	23949
30°	75122	32302	12308
35°	73766	21118	6147
40°	72017	12685	3587
45°	69025	7575	2682
50°	65103	4954	2253
55°	58921	3758	1965
60°	50634	3200	1793
65°	40729	2920	1694
70°	30684	3127	1684
75°	22570	2973	1732
80°	16512	2960	1897
85°	12367	3590	2453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4455.1	8.4
10°-20°	11083.5	20.9
20°-30°	12276.6	23.2
30°-40°	9835.8	18.6
40°-50°	7021.5	13.3
50°-60°	4510.0	8.5
60°-70°	2444.1	4.6
70°-80°	1044.7	2.0
80°-90°	289.7	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°	27815.3	52.5
0°-40°	37651.1	71.1
0°-60°	49182.5	92.9
0°-90°	52961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	48376	48376	48376	48376	48376	
5°	47902	48081	47426	47275	47176	###
15°	46182	44738	39906	35267	33458	13030
25°	42686	37639	25123	16368	13443	19665
35°	37425	27070	10714	4321	3119	23400
45°	30229	15627	3318	1412	1175	23300
55°	20932	6986	1335	820	698	18654
65°	10661	2869	764	528	443	10676
75°	3618	1050	476	331	278	4020
85°	668	278	194	160	132	815
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	48375.9	48375.9	48375.9	48375.9	48375.9
2.5°	48057.5	48358.3	48034.5	48235.8	48442.1
5°	47902.1	48080.6	47425.5	47275.2	47176.0
7.5°	47631.9	47581.0	46350.5	45552.9	45168.0
10°	47275.2	46862.4	44760.3	43007.5	42238.0
12.5°	46765.7	45914.7	42607.3	39529.4	38224.9
15°	46182.2	44737.6	39906.5	35266.8	33457.6
17.5°	45484.0	43361.5	36678.2	30695.7	28308.1
20°	44658.5	41700.3	33034.7	25839.1	23069.4
22.5°	43736.2	39784.3	29133.6	20997.8	18027.1
25°	42686.4	37638.7	25123.2	16368.3	13443.1
27.5°	41552.7	35256.6	21135.6	12230.3	9562.5
30°	40293.8	32677.9	17326.2	8818.7	6601.9
32.5°	38920.4	29936.4	13787.3	6201.7	4515.1
35°	37424.9	27069.9	10714.1	4321.3	3118.7
37.5°	35893.4	24144.7	8092.4	3054.9	2237.2
40°	34168.4	21229.7	6018.4	2237.2	1701.9
42.5°	32316.1	18371.0	4454.0	1722.3	1378.4
45°	30229.3	15626.7	3317.6	1411.7	1174.7
47.5°	28206.3	13068.7	2519.9	1202.6	1021.7
50°	25918.2	10760.2	1972.1	1049.8	896.8
52.5°	23489.9	8729.4	1600.1	924.9	789.9
55°	20931.6	6986.5	1335.0	820.4	698.2
57.5°	18340.4	5534.1	1141.5	731.2	621.8
60°	15680.3	4425.8	991.1	654.8	555.3
62.5°	13084.0	3539.2	866.2	588.6	496.9
65°	10660.8	2868.9	764.4	527.5	443.3
67.5°	8421.0	2267.7	713.5	473.9	400.2
70°	6499.8	1765.7	662.5	422.9	356.7
72.5°	4925.2	1355.7	586.2	377.1	316.0
75°	3618.0	1049.8	476.5	331.3	277.7
77.5°	2588.8	807.8	387.3	287.9	239.6
80°	1775.9	601.4	318.4	247.1	204.0
82.5°	1154.4	425.6	257.3	204.0	168.0
85°	667.6	277.7	193.8	160.5	132.4
87.5°	287.9	152.8	132.4	119.8	101.8
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)