

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: P731187

Luminaire Tested: **HBLED-LD5-60SE-W-FLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60SE-W-FLI-UNV-L740
Description: 60000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55296.0 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

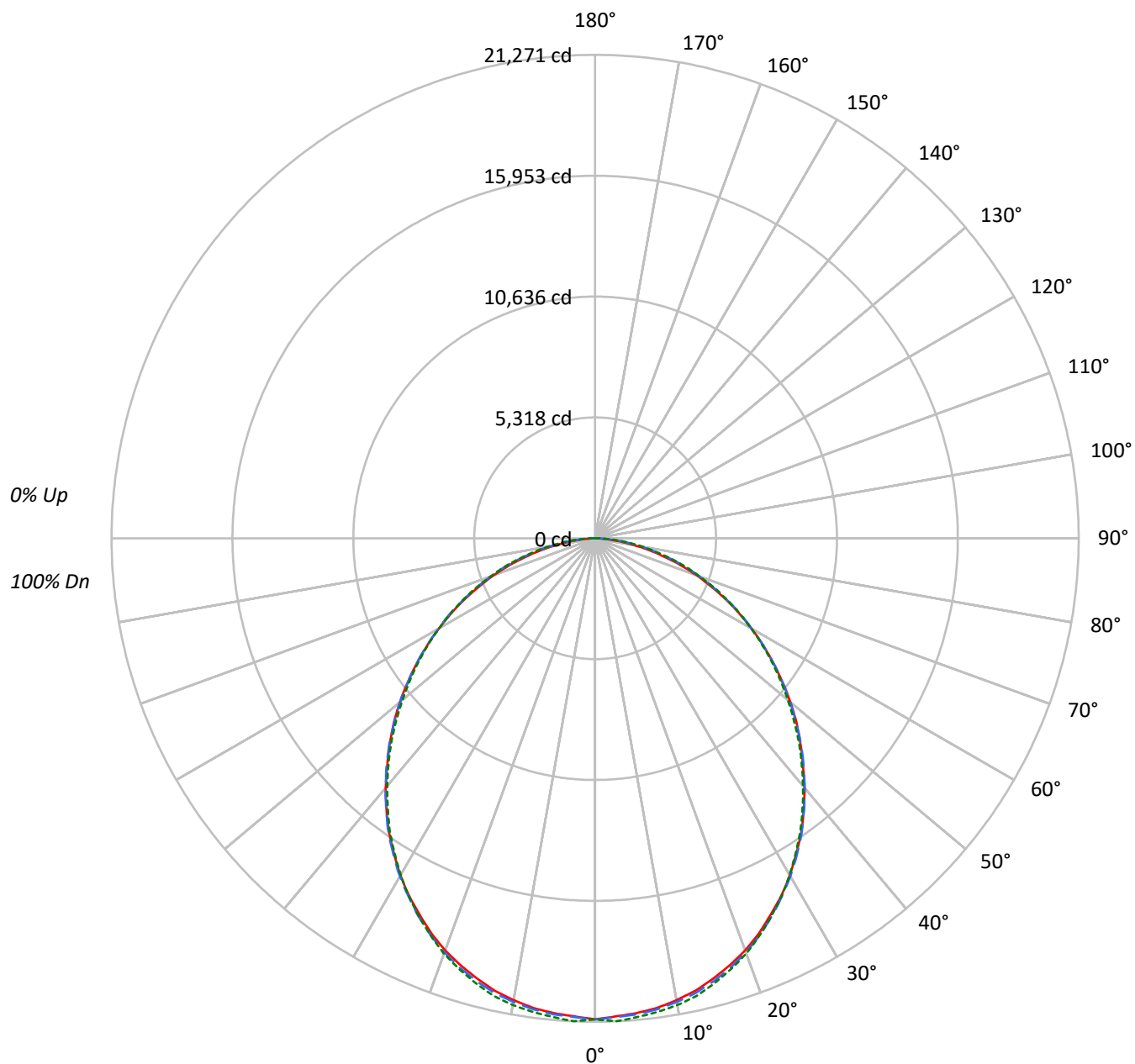
Input Watts (W): 367
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34179	34179	34179
5°	33984	34080	34275
10°	33830	33967	34188
15°	33533	33715	33879
20°	33153	33313	33409
25°	32539	32724	32676
30°	31940	32025	31895
35°	31148	31228	31029
40°	30212	30212	29980
45°	29156	29236	28937
50°	28154	28106	27755
55°	26935	26939	26697
60°	25631	25661	25561
65°	24157	24398	24460
70°	22312	22923	22948
75°	19719	20996	21322
80°	16172	18387	19426
85°	11223	15437	17456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2002.0	3.6
10°-20°	5695.4	10.3
20°-30°	8463.7	15.3
30°-40°	9896.3	17.9
40°-50°	9866.9	17.8
50°-60°	8560.8	15.5
60°-70°	6323.2	11.4
70°-80°	3540.2	6.4
80°-90°	944.6	1.7
90°-100°	2.8	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°	16161.2	29.2
0°-40°	26057.5	47.1
0°-60°	44485.2	80.4
0°-90°	55293.2	100.0
90°-120°	2.8	0.0
90°-150°	2.8	0.0
90°-180°	3.0	0.0
0°-180°	55296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21169	21169	21169	21169	21169	
5°	20968	21100	21028	21120	21147	###
15°	20061	20201	20170	20267	20268	5658
25°	18265	18412	18369	18409	18342	8421
35°	15803	15942	15843	15841	15742	9871
45°	12769	12905	12804	12751	12673	9857
55°	9569	9635	9570	9554	9484	8556
65°	6323	6385	6386	6419	6402	6254
75°	3161	3255	3366	3390	3418	3366
85°	606	732	833	907	942	736
90°	0	14	16	36	34	25
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21168.9	21168.9	21168.9	21168.9	21168.9
2.5°	21053.1	21178.5	21090.8	21174.3	21271.3
5°	20968.3	21100.4	21027.5	21120.3	21147.3
7.5°	20844.6	20972.5	20902.4	20995.3	21023.6
10°	20634.4	20773.2	20717.9	20823.0	20852.6
12.5°	20389.5	20520.0	20483.7	20606.1	20626.4
15°	20061.0	20201.1	20170.0	20267.0	20268.3
17.5°	19697.5	19829.3	19806.5	19882.0	19879.1
20°	19295.1	19436.3	19388.0	19470.0	19444.3
22.5°	18818.5	18969.3	18908.6	18977.3	18912.7
25°	18265.1	18412.0	18368.9	18409.1	18341.9
27.5°	17729.4	17864.0	17775.0	17823.5	17752.2
30°	17131.6	17246.0	17177.5	17193.6	17107.5
32.5°	16459.9	16595.8	16512.3	16509.7	16418.1
35°	15803.0	15941.5	15843.4	15840.6	15742.5
37.5°	15076.0	15205.2	15089.5	15096.2	14981.8
40°	14334.2	14446.1	14334.2	14328.8	14224.0
42.5°	13529.2	13677.3	13575.1	13587.0	13447.2
45°	12768.7	12904.7	12803.7	12751.1	12673.0
47.5°	12010.9	12070.0	11986.5	11973.0	11862.7
50°	11208.4	11252.8	11189.5	11173.4	11049.6
52.5°	10379.2	10456.0	10375.1	10353.5	10271.5
55°	9568.7	9634.6	9570.0	9553.9	9483.9
57.5°	8753.0	8839.1	8773.2	8756.9	8700.6
60°	7937.3	7962.7	7946.6	7970.8	7915.8
62.5°	7126.8	7185.9	7204.9	7198.1	7155.0
65°	6323.0	6385.0	6386.3	6418.7	6402.4
67.5°	5500.6	5581.2	5604.3	5637.8	5652.6
70°	4726.4	4788.4	4855.8	4875.8	4861.0
72.5°	3947.0	4046.6	4122.1	4139.5	4202.8
75°	3160.9	3255.0	3365.6	3389.7	3418.0
77.5°	2431.3	2556.3	2656.0	2688.4	2723.4
80°	1739.3	1877.9	1977.5	2021.9	2089.3
82.5°	1141.6	1283.0	1383.9	1428.3	1510.5
85°	605.8	732.4	833.3	907.3	942.3
87.5°	179.0	286.7	344.5	366.1	397.2
90°	0.0	13.5	16.1	36.3	33.7
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)