

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: P730932

Luminaire Tested: **HBLED-LD5-30SE-W-FLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730932
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-LD5-30SE-W-FLI-UNV-L840
Description: 30000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27842.0 lumens
Efficiency: N/A
Efficacy: 146.5 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

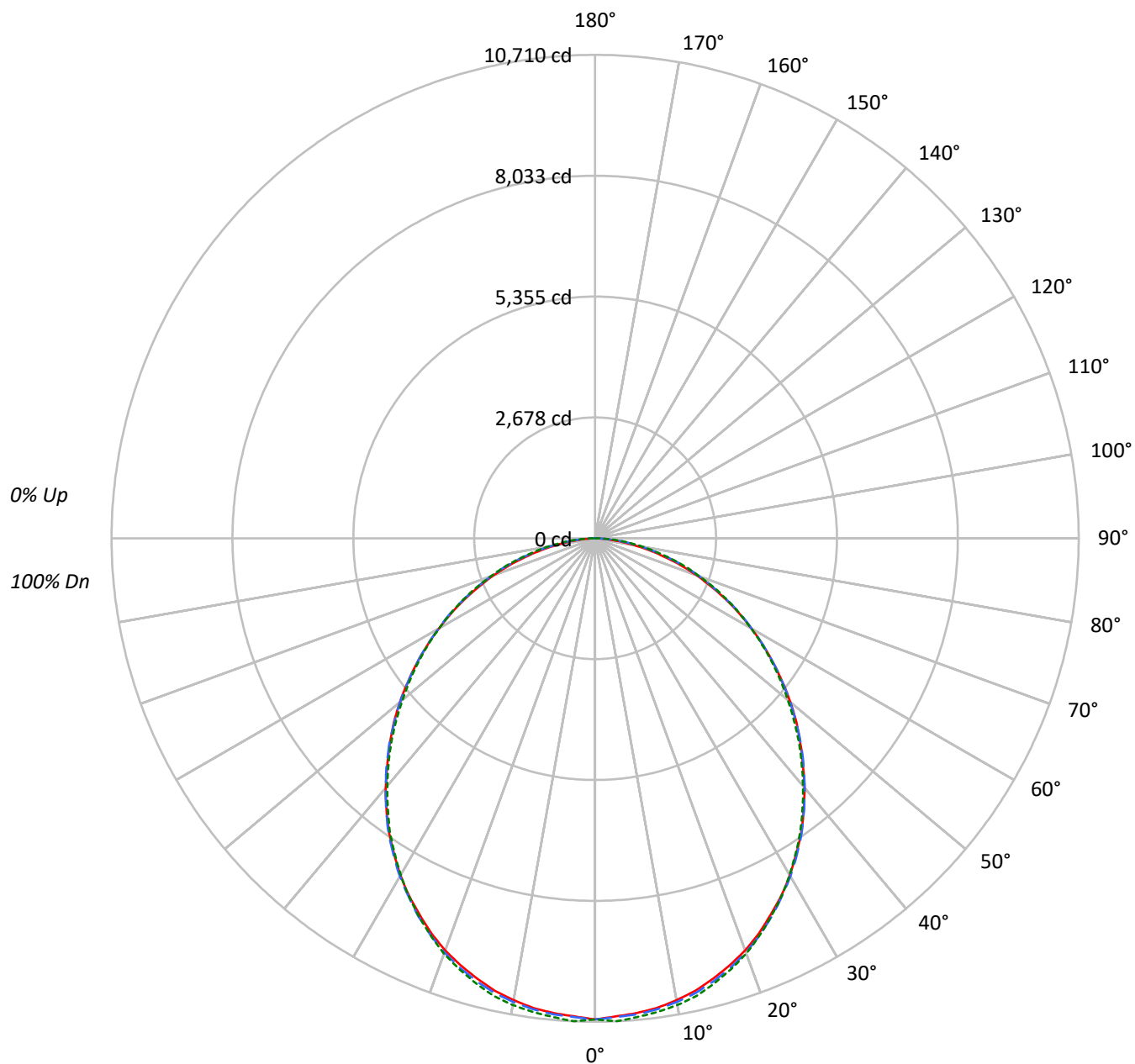
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17209	17209	17209
5°	17111	17160	17258
10°	17034	17103	17214
15°	16884	16976	17059
20°	16693	16773	16822
25°	16384	16477	16453
30°	16082	16125	16059
35°	15683	15724	15624
40°	15212	15212	15095
45°	14680	14720	14570
50°	14176	14152	13975
55°	13562	13564	13442
60°	12905	12921	12870
65°	12163	12285	12316
70°	11234	11542	11554
75°	9928	10571	10736
80°	8143	9258	9782
85°	5650	7773	8790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.0	3.6
10°-20°	2867.7	10.3
20°-30°	4261.6	15.3
30°-40°	4982.9	17.9
40°-50°	4968.1	17.8
50°-60°	4310.4	15.5
60°-70°	3183.8	11.4
70°-80°	1782.5	6.4
80°-90°	475.6	1.7
90°-100°	1.4	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°	8137.3	29.2
0°-40°	13120.2	47.1
0°-60°	22398.7	80.4
0°-90°	27840.6	100.0
90°-120°	1.4	0.0
90°-150°	1.4	0.0
90°-180°	1.0	0.0
0°-180°	27842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10659	10659	10659	10659	10659	
5°	10558	10624	10588	10634	10648	###
15°	10101	10171	10156	10205	10205	2849
25°	9197	9271	9249	9269	9235	4240
35°	7957	8027	7977	7976	7926	4970
45°	6429	6498	6447	6420	6381	4963
55°	4818	4851	4819	4810	4775	4308
65°	3184	3215	3216	3232	3224	3149
75°	1592	1639	1695	1707	1721	1695
85°	305	369	420	457	474	370
90°	0	7	8	18	17	12
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°	10658.7	10658.7	10658.7	10658.7	10658.7
2.5°	10600.4	10663.5	10619.4	10661.4	10710.3
5°	10557.7	10624.2	10587.5	10634.3	10647.9
7.5°	10495.4	10559.8	10524.5	10571.3	10585.5
10°	10389.6	10459.5	10431.7	10484.6	10499.5
12.5°	10266.3	10332.0	10313.7	10375.4	10385.5
15°	10100.9	10171.4	10155.8	10204.6	10205.3
17.5°	9917.9	9984.2	9972.7	10010.8	10009.3
20°	9715.3	9786.3	9762.0	9803.3	9790.4
22.5°	9475.3	9551.2	9520.6	9555.2	9522.7
25°	9196.6	9270.6	9248.9	9269.1	9235.3
27.5°	8926.9	8994.7	8949.9	8974.3	8938.4
30°	8625.9	8683.5	8649.0	8657.1	8613.8
32.5°	8287.7	8356.1	8314.1	8312.8	8266.7
35°	7956.9	8026.7	7977.3	7975.9	7926.5
37.5°	7590.9	7655.9	7597.7	7601.1	7543.5
40°	7217.4	7273.7	7217.4	7214.7	7161.9
42.5°	6812.0	6886.6	6835.2	6841.2	6770.8
45°	6429.2	6497.6	6446.8	6420.3	6381.0
47.5°	6047.6	6077.4	6035.3	6028.5	5973.0
50°	5643.5	5665.9	5634.0	5625.9	5563.6
52.5°	5226.0	5264.7	5223.9	5213.1	5171.8
55°	4817.9	4851.1	4818.6	4810.5	4775.2
57.5°	4407.2	4450.6	4417.4	4409.2	4380.8
60°	3996.5	4009.3	4001.2	4013.3	3985.6
62.5°	3588.4	3618.2	3627.7	3624.3	3602.6
65°	3183.7	3214.9	3215.6	3231.9	3223.7
67.5°	2769.6	2810.2	2821.8	2838.7	2846.1
70°	2379.8	2411.0	2444.9	2455.0	2447.6
72.5°	1987.3	2037.5	2075.5	2084.3	2116.1
75°	1591.5	1638.9	1694.6	1706.7	1721.0
77.5°	1224.2	1287.1	1337.3	1353.6	1371.3
80°	875.8	945.5	995.7	1018.0	1052.0
82.5°	574.8	646.0	696.8	719.1	760.6
85°	305.0	368.8	419.6	456.8	474.5
87.5°	90.1	144.4	173.5	184.3	200.0
90°	0.0	6.8	8.1	18.3	17.0
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)