

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: PORTFOLIO

Report Number: P247097

Luminaire Tested: **LD8B120D010 ER8B120827 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247097  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120827 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12994.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

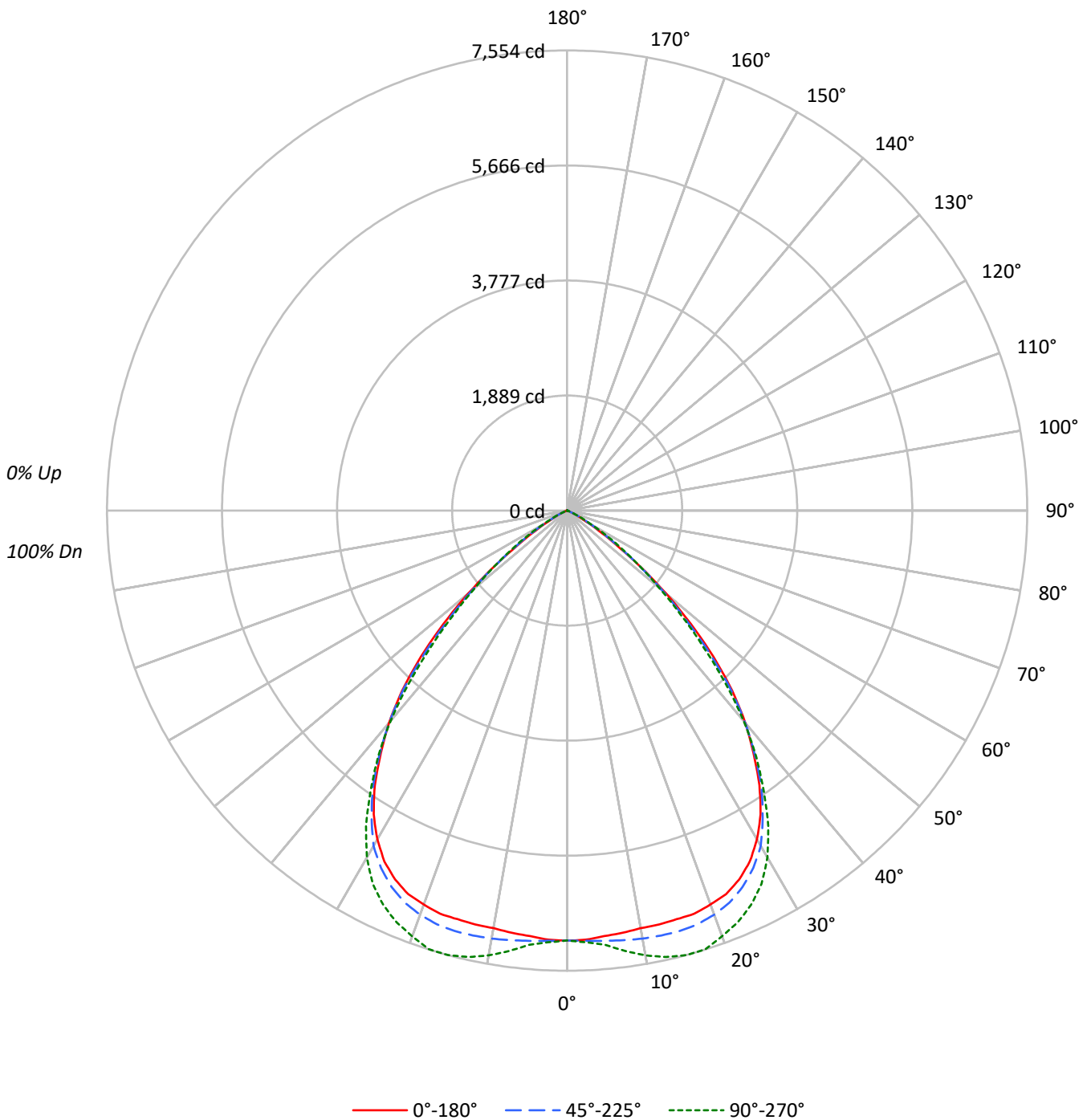
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	217649	217649	217649
5°	217069	219465	221517
10°	217935	223430	232172
15°	221710	228107	241167
20°	225812	231663	243998
25°	227312	231919	243017
30°	221940	226370	234046
35°	207171	209302	211801
40°	183200	183035	181642
45°	148145	143928	137600
50°	101774	97860	94679
55°	52385	55724	59664
60°	21820	25828	28980
65°	8471	8975	10587
70°	2245	2119	2867
75°	989	1811	1644
80°	1474	1723	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	679.2	5.2
10°-20°	2033.4	15.6
20°-30°	3146.5	24.2
30°-40°	3446.4	26.5
40°-50°	2521.4	19.4
50°-60°	989.3	7.6
60°-70°	160.1	1.2
70°-80°	14.8	0.1
80°-90°	3.0	0.0
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°	5859.1	45.1
0°-40°	9305.5	71.6
0°-60°	12816.2	98.6
0°-90°	12994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7058	7058	7058	7058	7058	
5°	7013	7029	7090	7141	7156	668
15°	6945	6990	7145	7411	7554	1967
25°	6681	6702	6816	7022	7142	3063
35°	5503	5513	5560	5613	5626	3408
45°	3397	3392	3300	3200	3155	2587
55°	974	995	1036	1074	1110	959
65°	116	113	123	135	145	141
75°	8	12	15	11	14	14
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7058.2	7058.2	7058.2	7058.2	7058.2
2.5°	7051.3	7055.4	7069.3	7083.1	7091.4
5°	7012.6	7029.2	7090.0	7141.1	7156.3
7.5°	6989.1	7016.7	7112.1	7240.6	7290.4
10°	6960.1	7000.2	7135.6	7318.0	7414.8
12.5°	6961.5	7000.2	7143.9	7381.6	7506.0
15°	6944.9	6990.5	7145.3	7410.6	7554.4
17.5°	6940.7	6962.8	7120.4	7389.9	7548.8
20°	6881.3	6911.7	7059.6	7298.7	7435.5
22.5°	6816.3	6830.2	6965.6	7200.6	7316.6
25°	6680.9	6701.6	6816.3	7022.3	7142.5
27.5°	6494.3	6498.5	6614.6	6805.3	6910.3
30°	6233.1	6253.8	6357.5	6498.5	6573.1
32.5°	5909.7	5906.9	5974.7	6097.7	6146.0
35°	5503.4	5513.1	5560.0	5612.6	5626.4
37.5°	5026.6	5039.0	5070.8	5088.8	5101.2
40°	4551.1	4551.1	4547.0	4527.6	4512.4
42.5°	4009.4	3991.4	3970.7	3885.0	3847.7
45°	3397.1	3391.6	3300.4	3199.5	3155.3
47.5°	2753.1	2722.7	2627.3	2545.8	2527.8
50°	2121.5	2089.7	2039.9	1999.8	1973.6
52.5°	1512.0	1488.5	1509.2	1509.2	1506.4
55°	974.4	995.1	1036.5	1073.9	1109.8
57.5°	617.8	645.4	709.0	757.4	769.8
60°	353.8	374.5	418.8	461.6	469.9
62.5°	222.5	223.9	252.9	277.8	293.0
65°	116.1	113.3	123.0	135.4	145.1
67.5°	48.4	48.4	58.0	56.7	71.9
70°	24.9	20.7	23.5	27.6	31.8
72.5°	18.0	13.8	19.3	24.9	11.1
75°	8.3	12.4	15.2	11.1	13.8
77.5°	11.1	11.1	8.3	13.8	2.8
80°	8.3	5.5	9.7	4.1	0.0
82.5°	1.4	2.8	1.4	1.4	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	4.1	6.9	5.5	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)