

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: P247113

Luminaire Tested: **LD8B120D010 ER8B120850 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247113  
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 ER8B120850 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14029.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

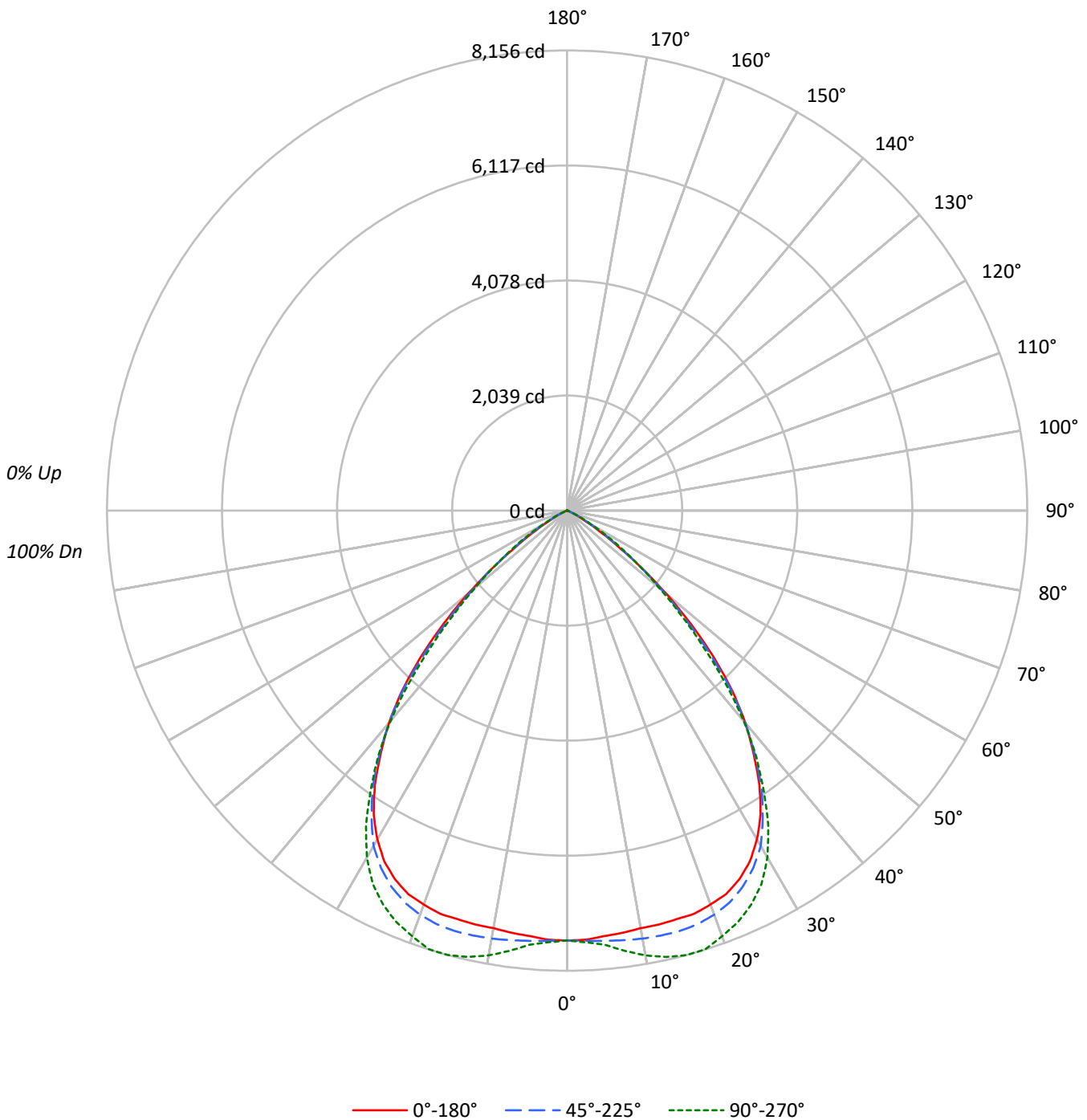
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37

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

	0°	45°	90°
0°	234985	234985	234985
5°	234360	236944	239161
10°	235294	241228	250665
15°	239367	246275	260376
20°	243798	250115	263435
25°	245416	250394	262374
30°	239619	244401	252690
35°	223670	225974	228670
40°	197792	197615	196113
45°	159945	155392	148559
50°	109877	105655	102220
55°	56557	60164	64417
60°	23559	27882	31287
65°	9143	9690	11434
70°	2425	2290	3092
75°	1072	1954	1775
80°	1598	1847	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	733.2	5.2
10°-20°	2195.4	15.6
20°-30°	3397.1	24.2
30°-40°	3720.9	26.5
40°-50°	2722.2	19.4
50°-60°	1068.1	7.6
60°-70°	172.9	1.2
70°-80°	15.9	0.1
80°-90°	3.2	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°	6325.8	45.1
0°-40°	10046.7	71.6
0°-60°	13837.0	98.6
0°-90°	14029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7620	7620	7620	7620	7620	
5°	7571	7589	7655	7710	7726	721
15°	7498	7547	7714	8001	8156	2124
25°	7213	7235	7359	7582	7711	3307
35°	5942	5952	6003	6060	6074	3679
45°	3668	3662	3563	3454	3407	2793
55°	1052	1074	1119	1159	1198	1035
65°	125	122	133	146	157	152
75°	9	13	16	12	15	15
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°	7620.4	7620.4	7620.4	7620.4	7620.4
2.5°	7612.9	7617.4	7632.3	7647.3	7656.2
5°	7571.2	7589.1	7654.7	7709.9	7726.3
7.5°	7545.8	7575.6	7678.6	7817.4	7871.1
10°	7514.5	7557.7	7704.0	7900.9	8005.4
12.5°	7516.0	7557.7	7712.9	7969.6	8103.9
15°	7498.0	7547.3	7714.4	8000.9	8156.1
17.5°	7493.6	7517.4	7687.5	7978.5	8150.1
20°	7429.4	7462.2	7621.9	7880.0	8027.8
22.5°	7359.3	7374.2	7520.4	7774.1	7899.4
25°	7213.0	7235.4	7359.3	7581.6	7711.4
27.5°	7011.6	7016.1	7141.4	7347.3	7460.7
30°	6729.6	6752.0	6863.9	7016.1	7096.7
32.5°	6380.4	6377.4	6450.6	6583.4	6635.6
35°	5941.7	5952.2	6002.9	6059.6	6074.5
37.5°	5426.9	5440.4	5474.7	5494.1	5507.5
40°	4913.6	4913.6	4909.2	4888.3	4871.9
42.5°	4328.7	4309.3	4286.9	4194.4	4154.1
45°	3667.7	3661.7	3563.3	3454.3	3406.6
47.5°	2972.4	2939.5	2836.6	2748.5	2729.1
50°	2290.4	2256.1	2202.4	2159.1	2130.8
52.5°	1632.4	1607.0	1629.4	1629.4	1626.4
55°	1052.0	1074.3	1119.1	1159.4	1198.2
57.5°	667.0	696.8	765.5	817.7	831.1
60°	382.0	404.4	452.1	498.4	507.3
62.5°	240.2	241.7	273.1	299.9	316.3
65°	125.3	122.4	132.8	146.2	156.7
67.5°	52.2	52.2	62.7	61.2	77.6
70°	26.9	22.4	25.4	29.8	34.3
72.5°	19.4	14.9	20.9	26.9	11.9
75°	9.0	13.4	16.4	11.9	14.9
77.5°	11.9	11.9	9.0	14.9	3.0
80°	9.0	6.0	10.4	4.5	0.0
82.5°	1.5	3.0	1.5	1.5	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	4.5	7.5	6.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)