

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: P247130

Luminaire Tested: **LD8B80D010 ER8B80950 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247130  
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: LD8B80D010 ER8B80950 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8670.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

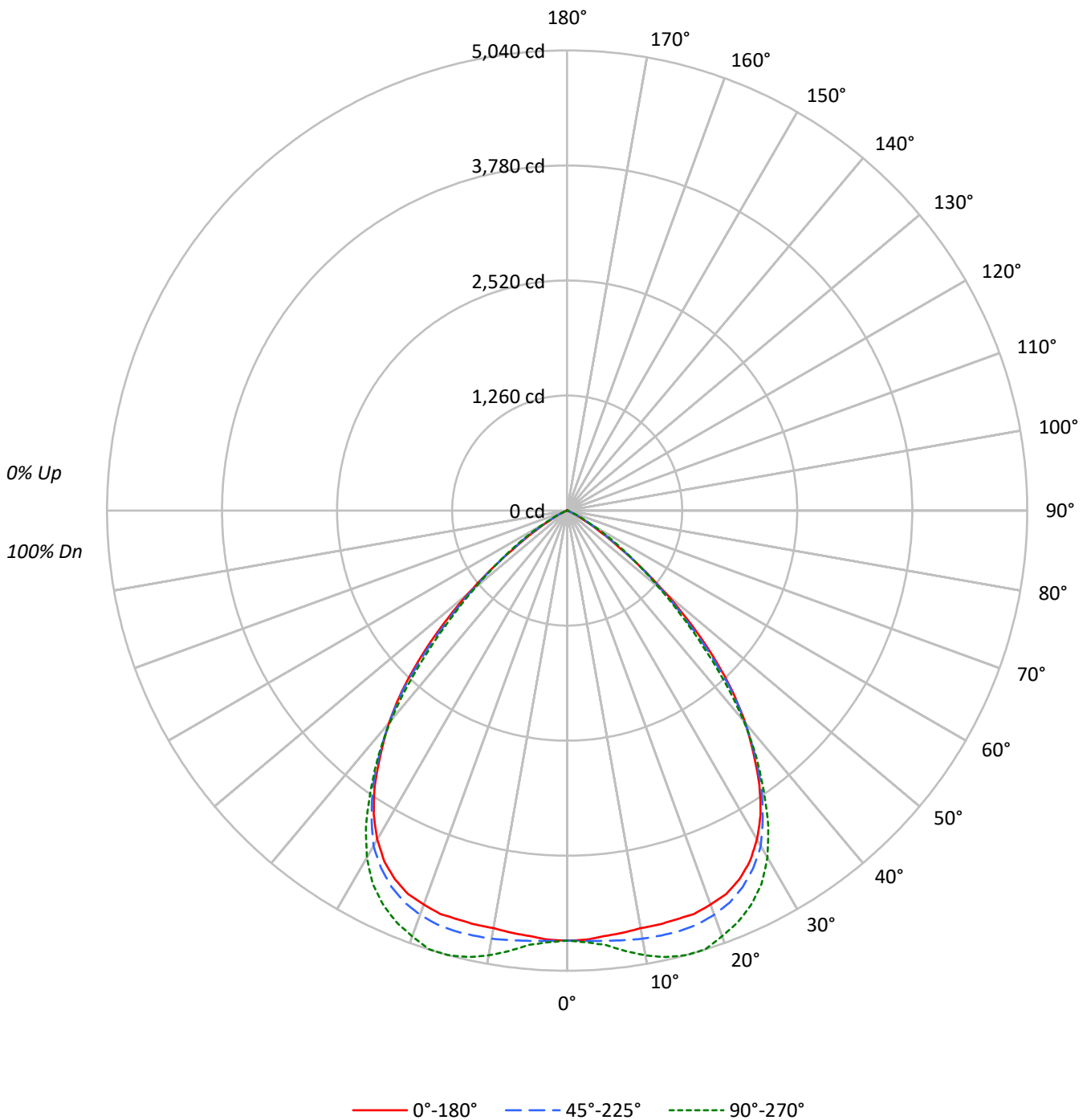
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	145224	145224	145224
5°	144834	146435	147803
10°	145413	149080	154913
15°	147930	152198	160913
20°	150668	154573	162803
25°	151669	154745	162149
30°	148085	151040	156164
35°	138229	139652	141320
40°	122239	122126	121197
45°	98849	96032	91810
50°	67905	65296	63171
55°	34950	37181	39810
60°	14561	17231	19334
65°	5655	5990	7063
70°	1497	1416	1911
75°	655	1203	1096
80°	977	1154	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.2	5.2
10°-20°	1356.8	15.6
20°-30°	2099.5	24.2
30°-40°	2299.5	26.5
40°-50°	1682.3	19.4
50°-60°	660.1	7.6
60°-70°	106.9	1.2
70°-80°	9.8	0.1
80°-90°	2.0	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°	3909.4	45.1
0°-40°	6208.9	71.6
0°-60°	8551.3	98.6
0°-90°	8670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8670.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4710	4710	4710	4710	4710	
5°	4679	4690	4731	4765	4775	446
15°	4634	4664	4768	4945	5040	1312
25°	4458	4472	4548	4686	4766	2044
35°	3672	3678	3710	3745	3754	2274
45°	2267	2263	2202	2135	2105	1726
55°	650	664	692	716	740	640
65°	78	76	82	90	97	94
75°	6	8	10	7	9	9
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4709.5	4709.5	4709.5	4709.5	4709.5
2.5°	4704.8	4707.6	4716.8	4726.0	4731.6
5°	4679.0	4690.1	4730.7	4764.8	4774.9
7.5°	4663.3	4681.8	4745.4	4831.2	4864.4
10°	4644.0	4670.7	4761.1	4882.8	4947.4
12.5°	4644.9	4670.7	4766.6	4925.2	5008.2
15°	4633.8	4664.3	4767.5	4944.6	5040.5
17.5°	4631.1	4645.8	4750.9	4930.8	5036.8
20°	4591.4	4611.7	4710.4	4869.9	4961.2
22.5°	4548.1	4557.3	4647.7	4804.4	4881.9
25°	4457.7	4471.5	4548.1	4685.5	4765.7
27.5°	4333.2	4336.0	4413.4	4540.7	4610.8
30°	4158.9	4172.8	4241.9	4336.0	4385.8
32.5°	3943.1	3941.3	3986.5	4068.6	4100.8
35°	3672.0	3678.5	3709.8	3744.9	3754.1
37.5°	3353.9	3362.2	3383.4	3395.4	3403.7
40°	3036.7	3036.7	3033.9	3021.0	3010.8
42.5°	2675.2	2663.2	2649.4	2592.2	2567.3
45°	2266.7	2263.0	2202.1	2134.8	2105.3
47.5°	1836.9	1816.6	1753.0	1698.6	1686.6
50°	1415.5	1394.3	1361.1	1334.4	1316.8
52.5°	1008.8	993.2	1007.0	1007.0	1005.1
55°	650.1	664.0	691.6	716.5	740.5
57.5°	412.2	430.6	473.1	505.3	513.6
60°	236.1	249.9	279.4	308.0	313.5
62.5°	148.5	149.4	168.8	185.4	195.5
65°	77.5	75.6	82.1	90.4	96.8
67.5°	32.3	32.3	38.7	37.8	48.0
70°	16.6	13.8	15.7	18.4	21.2
72.5°	12.0	9.2	12.9	16.6	7.4
75°	5.5	8.3	10.1	7.4	9.2
77.5°	7.4	7.4	5.5	9.2	1.8
80°	5.5	3.7	6.5	2.8	0.0
82.5°	0.9	1.8	0.9	0.9	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.8	4.6	3.7	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)