

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: P247126

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247126  
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: LSR8B80D010 EC8B80940 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8374.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

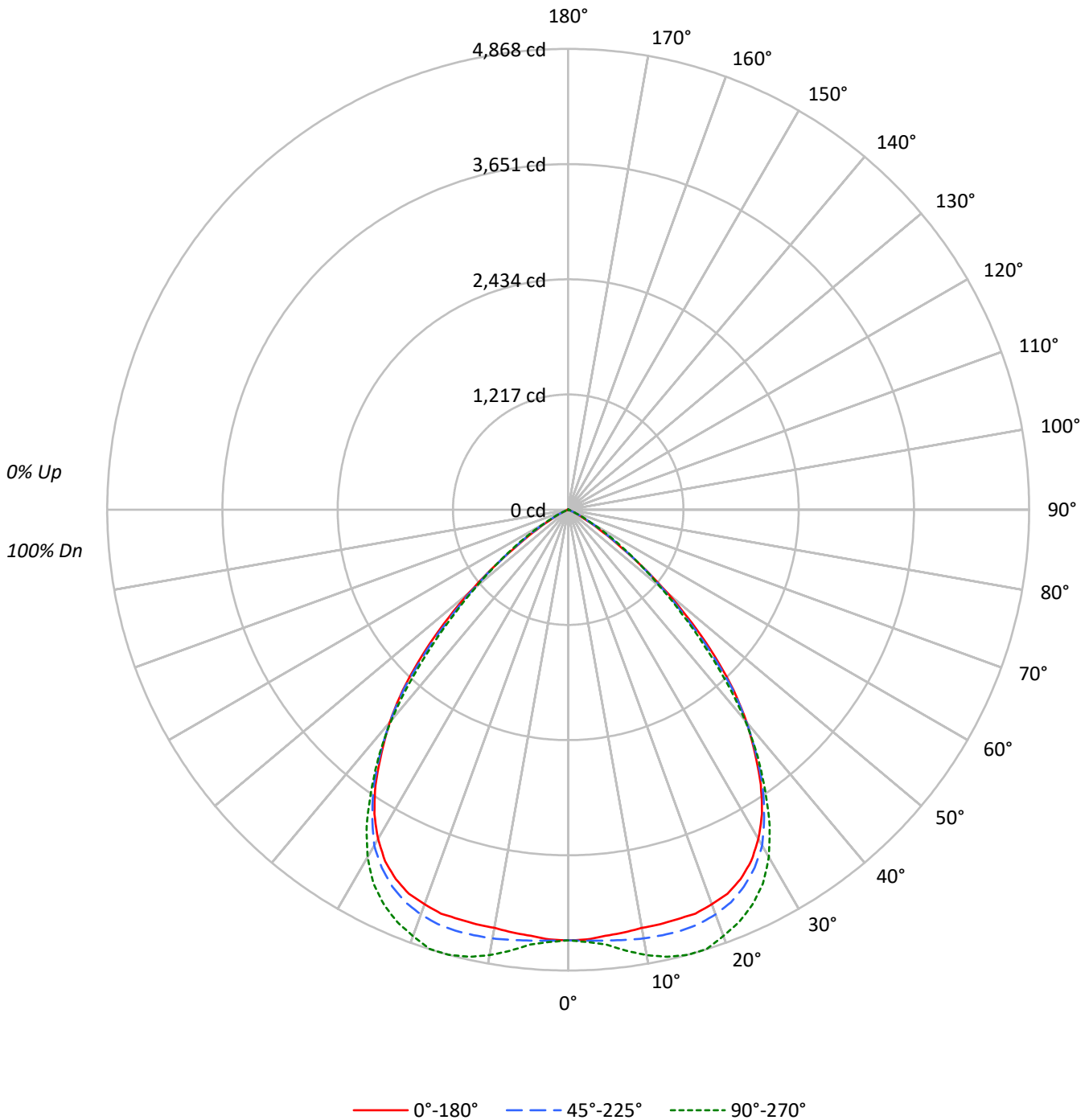
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	140265	140265	140265
5°	139891	141435	142757
10°	140447	143988	149624
15°	142880	147004	155419
20°	145526	149297	157244
25°	146491	149461	156613
30°	143029	145884	150830
35°	133513	134887	136494
40°	118065	117956	117058
45°	95473	92752	88675
50°	65588	63065	61017
55°	33757	35913	38450
60°	14061	16645	18674
65°	5458	5786	6822
70°	1443	1361	1848
75°	631	1168	1060
80°	941	1101	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.7	5.2
10°-20°	1310.5	15.6
20°-30°	2027.8	24.2
30°-40°	2221.0	26.5
40°-50°	1624.9	19.4
50°-60°	637.5	7.6
60°-70°	103.2	1.2
70°-80°	9.5	0.1
80°-90°	1.9	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°	3775.9	45.1
0°-40°	5996.9	71.6
0°-60°	8259.4	98.6
0°-90°	8374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8374.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4549	4549	4549	4549	4549	
5°	4519	4530	4569	4602	4612	431
15°	4476	4505	4605	4776	4868	1268
25°	4306	4319	4393	4526	4603	1974
35°	3547	3553	3583	3617	3626	2196
45°	2189	2186	2127	2062	2033	1667
55°	628	641	668	692	715	618
65°	75	73	79	87	94	91
75°	5	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°	4548.7	4548.7	4548.7	4548.7	4548.7
2.5°	4544.2	4546.9	4555.8	4564.7	4570.0
5°	4519.3	4530.0	4569.2	4602.1	4611.9
7.5°	4504.1	4521.9	4583.4	4666.2	4698.3
10°	4485.4	4511.3	4598.5	4716.1	4778.5
12.5°	4486.3	4511.3	4603.9	4757.1	4837.2
15°	4475.6	4505.0	4604.8	4775.8	4868.4
17.5°	4473.0	4487.2	4588.7	4762.4	4864.9
20°	4434.7	4454.3	4549.6	4703.6	4791.8
22.5°	4392.8	4401.7	4489.0	4640.4	4715.2
25°	4305.5	4318.9	4392.8	4525.5	4603.0
27.5°	4185.3	4187.9	4262.8	4385.7	4453.4
30°	4016.9	4030.3	4097.1	4187.9	4236.0
32.5°	3808.5	3806.7	3850.4	3929.6	3960.8
35°	3546.7	3552.9	3583.2	3617.0	3625.9
37.5°	3239.4	3247.4	3267.9	3279.5	3287.5
40°	2933.0	2933.0	2930.3	2917.8	2908.0
42.5°	2583.8	2572.3	2558.9	2503.7	2479.6
45°	2189.3	2185.7	2126.9	2061.9	2033.4
47.5°	1774.2	1754.6	1693.2	1640.6	1629.0
50°	1367.2	1346.7	1314.6	1288.8	1271.9
52.5°	974.4	959.3	972.6	972.6	970.8
55°	627.9	641.3	668.0	692.1	715.2
57.5°	398.1	415.9	456.9	488.1	496.1
60°	228.0	241.4	269.9	297.5	302.8
62.5°	143.4	144.3	163.0	179.0	188.8
65°	74.8	73.0	79.3	87.3	93.5
67.5°	31.2	31.2	37.4	36.5	46.3
70°	16.0	13.4	15.1	17.8	20.5
72.5°	11.6	8.9	12.5	16.0	7.1
75°	5.3	8.0	9.8	7.1	8.9
77.5°	7.1	7.1	5.3	8.9	1.8
80°	5.3	3.6	6.2	2.7	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°	6.2	2.7	4.5	3.6	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)