

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: P247514

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80950 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7000.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

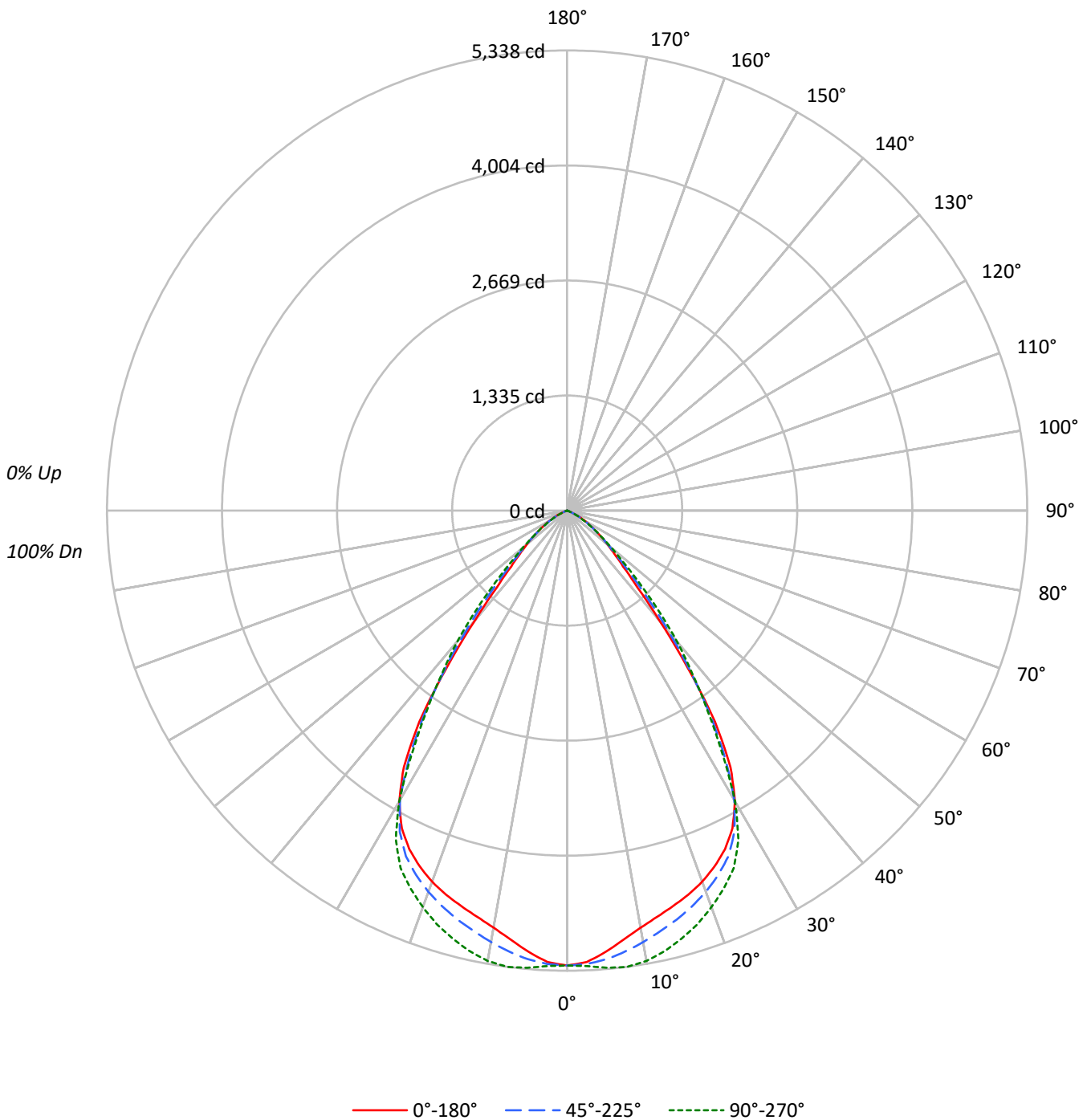
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

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

	0°	45°	90°
0°	162726	162726	162726
5°	159039	161723	164803
10°	153773	159146	166076
15°	151601	156779	164052
20°	150324	154439	160644
25°	147423	150560	155613
30°	138585	138061	138717
35°	112605	108818	107154
40°	66850	73677	79803
45°	40011	45035	51149
50°	29153	29901	32113
55°	21118	20376	20822
60°	14333	13247	12735
65°	7202	6662	6326
70°	1993	1749	1578
75°	774	548	548
80°	320	320	160
85°	318	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.8	7.1
10°-20°	1389.5	19.8
20°-30°	2019.5	28.9
30°-40°	1785.9	25.5
40°-50°	849.6	12.1
50°-60°	353.9	5.1
60°-70°	98.9	1.4
70°-80°	7.5	0.1
80°-90°	0.5	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°	3903.8	55.8
0°-40°	5689.7	81.3
0°-60°	6893.1	98.5
0°-90°	7000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7000.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5277	5277	5277	5277	5277	
5°	5138	5164	5225	5294	5324	483
15°	4749	4792	4911	5060	5139	1341
25°	4333	4352	4425	4523	4574	1980
35°	2991	2949	2891	2846	2846	1790
45°	918	950	1033	1129	1173	764
55°	393	388	379	379	387	357
65°	99	97	91	88	87	108
75°	6	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5277.1	5277.1	5277.1	5277.1	5277.1
2.5°	5242.1	5246.7	5264.2	5280.8	5288.2
5°	5137.9	5163.7	5224.6	5293.7	5324.1
7.5°	5018.9	5057.7	5160.0	5281.7	5338.0
10°	4911.0	4959.9	5082.6	5232.9	5303.9
12.5°	4826.2	4871.4	4996.8	5153.6	5233.8
15°	4748.8	4792.1	4911.0	5060.4	5138.8
17.5°	4671.3	4712.8	4815.1	4954.4	5030.0
20°	4580.9	4614.1	4706.3	4829.0	4895.4
22.5°	4468.4	4498.9	4576.3	4685.1	4745.1
25°	4332.9	4352.3	4425.1	4522.8	4573.6
27.5°	4153.1	4157.7	4202.0	4265.6	4303.4
30°	3892.1	3889.4	3877.4	3874.6	3895.8
32.5°	3527.0	3486.4	3416.3	3383.1	3357.3
35°	2991.3	2948.8	2890.7	2846.5	2846.5
37.5°	2286.8	2323.7	2346.7	2374.4	2388.2
40°	1660.7	1715.1	1830.3	1950.2	1982.5
42.5°	1207.0	1257.7	1382.2	1515.9	1554.6
45°	917.5	949.8	1032.7	1128.6	1172.9
47.5°	741.4	750.6	792.1	849.2	870.5
50°	607.7	610.4	623.3	652.8	669.4
52.5°	491.5	489.6	493.3	501.6	509.0
55°	392.8	388.2	379.0	379.0	387.3
57.5°	303.4	296.9	286.8	282.2	279.4
60°	232.4	225.9	214.8	207.5	206.5
62.5°	166.9	161.4	150.3	143.8	142.0
65°	98.7	96.8	91.3	87.6	86.7
67.5°	46.1	44.3	39.6	37.8	36.9
70°	22.1	21.2	19.4	18.4	17.5
72.5°	11.1	11.1	9.2	9.2	9.2
75°	6.5	5.5	4.6	4.6	4.6
77.5°	3.7	2.8	2.8	2.8	2.8
80°	1.8	1.8	1.8	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)