

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: P247142

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247142  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80827 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7912.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

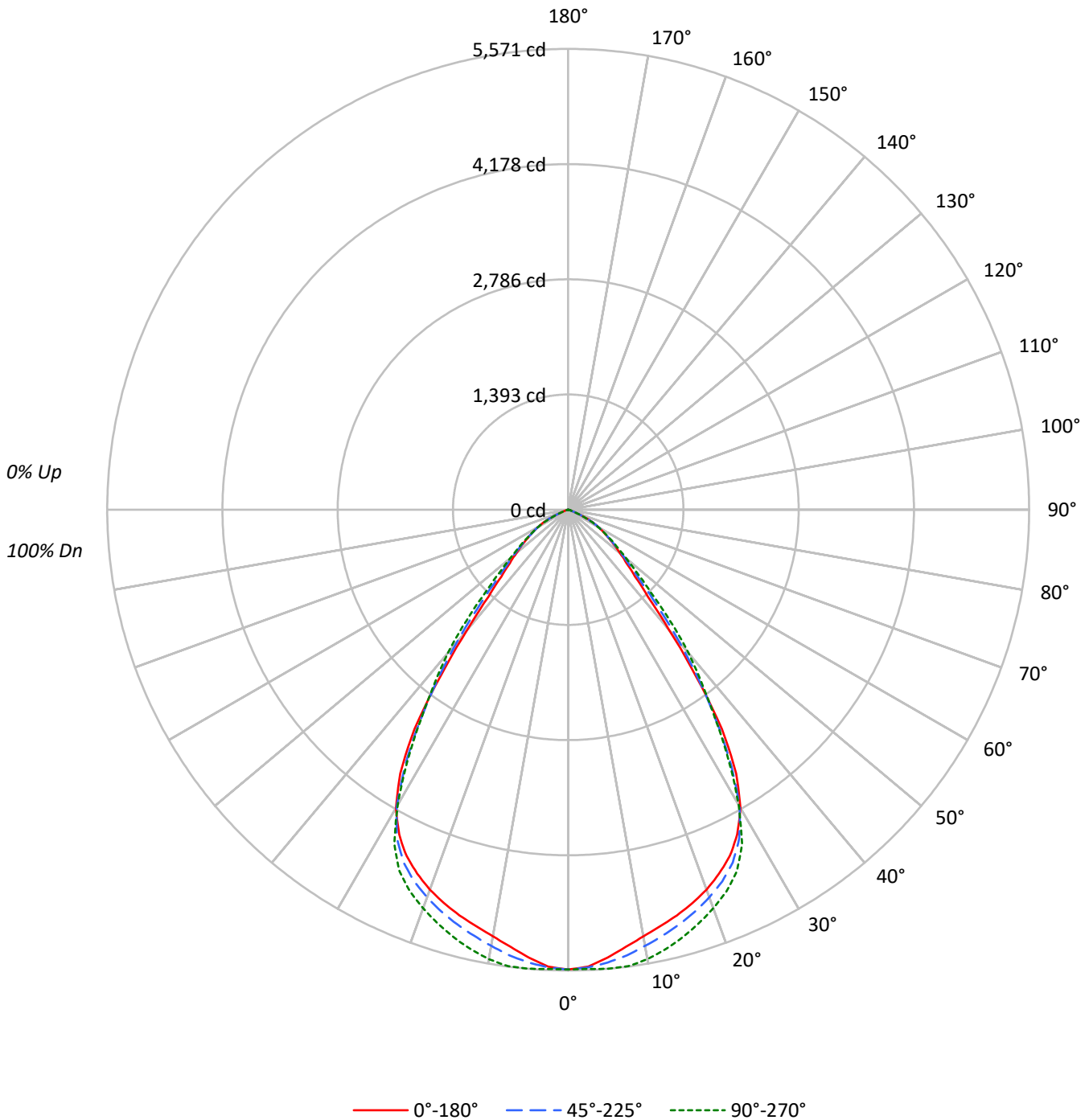
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	171404	171404	171404
5°	168254	170084	172436
10°	163943	167676	172758
15°	162088	165651	170804
20°	160395	163627	168306
25°	157236	160077	164098
30°	148249	147579	146678
35°	121945	117743	117073
40°	76358	84252	91087
45°	49832	55558	61572
50°	39290	41180	43881
55°	32026	32579	33590
60°	26211	26038	25921
65°	16979	16497	15607
70°	5833	5410	4995
75°	2014	1894	1787
80°	835	675	675
85°	318	318	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.7	6.6
10°-20°	1467.1	18.5
20°-30°	2145.6	27.1
30°-40°	1944.1	24.6
40°-50°	1033.7	13.1
50°-60°	551.7	7.0
60°-70°	225.0	2.8
70°-80°	22.7	0.3
80°-90°	1.3	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°	4133.3	52.2
0°-40°	6077.5	76.8
0°-60°	7662.9	96.9
0°-90°	7912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7912.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5558	5558	5558	5558	5558	
5°	5436	5450	5495	5544	5571	512
15°	5077	5106	5189	5296	5350	1432
25°	4621	4641	4705	4786	4823	2112
35°	3239	3194	3128	3104	3110	1947
45°	1143	1176	1274	1375	1412	935
55°	596	595	606	614	625	540
65°	233	232	226	213	214	232
75°	17	17	16	15	15	24
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5558.5	5558.5	5558.5	5558.5	5558.5
2.5°	5528.5	5527.6	5537.9	5550.1	5556.7
5°	5435.6	5449.7	5494.7	5544.5	5570.7
7.5°	5330.6	5356.8	5434.7	5520.1	5566.0
10°	5235.8	5269.6	5355.0	5466.6	5517.3
12.5°	5154.2	5187.0	5273.3	5387.8	5443.1
15°	5077.3	5106.4	5188.9	5295.9	5350.3
17.5°	4988.1	5016.3	5096.0	5197.4	5244.3
20°	4887.8	4911.2	4986.3	5081.0	5128.9
22.5°	4763.0	4788.3	4864.3	4951.6	4996.6
25°	4621.3	4641.0	4704.8	4785.5	4823.0
27.5°	4424.3	4442.1	4479.7	4522.8	4551.0
30°	4163.5	4158.8	4144.7	4131.6	4119.4
32.5°	3778.9	3733.8	3665.4	3622.2	3624.1
35°	3239.4	3194.4	3127.8	3104.3	3110.0
37.5°	2531.1	2564.9	2592.1	2637.1	2658.7
40°	1896.9	1955.1	2093.0	2213.1	2262.8
42.5°	1426.0	1483.2	1627.7	1754.3	1822.8
45°	1142.7	1176.4	1274.0	1375.3	1411.9
47.5°	956.9	971.9	1028.2	1092.9	1124.8
50°	819.0	828.4	858.4	894.1	914.7
52.5°	701.7	705.5	720.5	741.1	754.3
55°	595.7	594.8	606.0	614.5	624.8
57.5°	503.8	502.8	502.8	505.7	512.2
60°	425.0	422.2	422.2	418.4	420.3
62.5°	346.2	343.4	336.8	332.1	330.2
65°	232.7	231.7	226.1	213.0	213.9
67.5°	121.0	120.1	114.5	110.7	108.8
70°	64.7	62.9	60.0	57.2	55.4
72.5°	32.8	31.9	31.0	29.1	29.1
75°	16.9	16.9	15.9	15.0	15.0
77.5°	8.4	8.4	7.5	7.5	7.5
80°	4.7	4.7	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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)