

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: P247230

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B809727 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6377.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

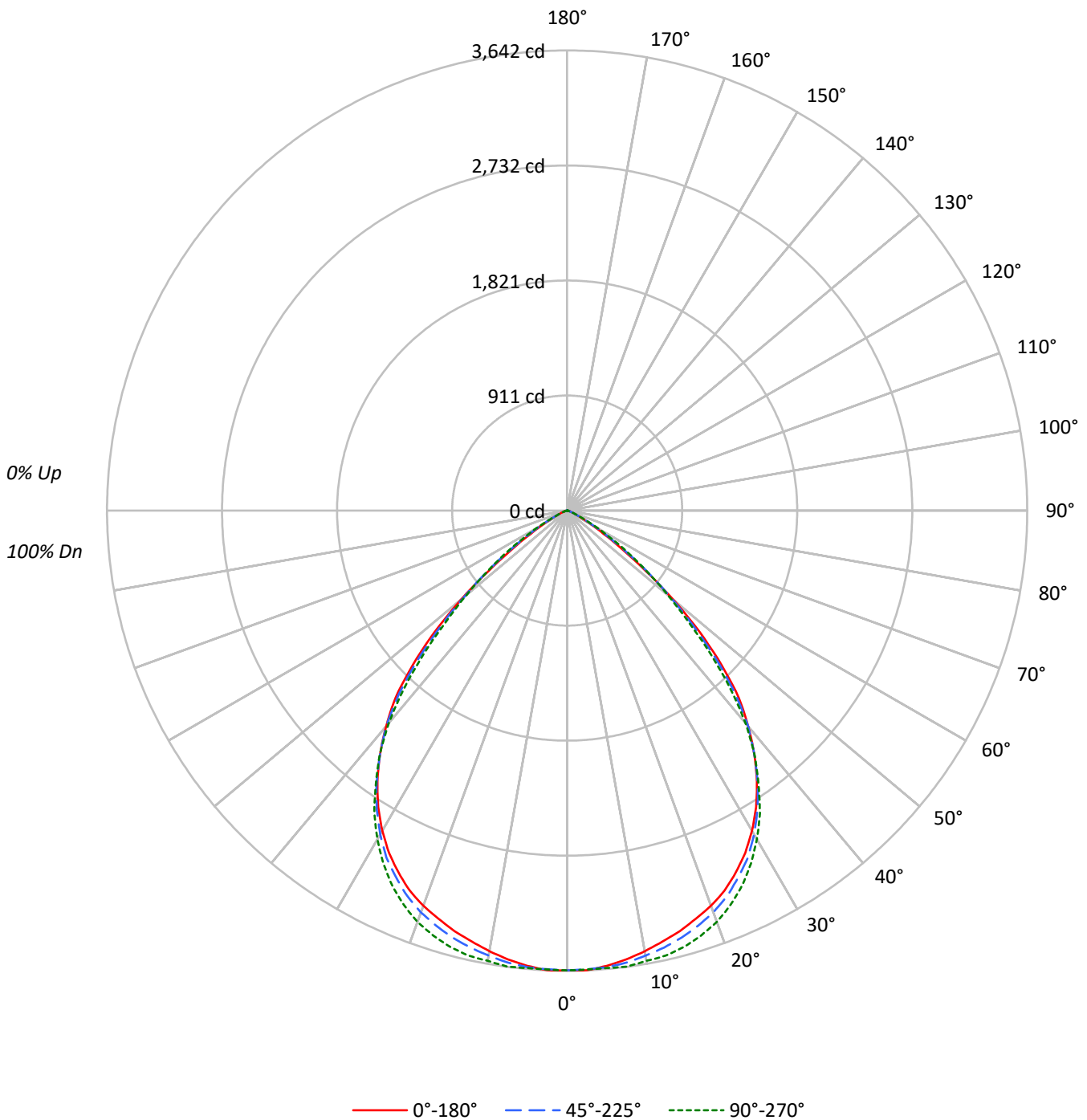
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.7	5.4
10°-20°	988.6	15.5
20°-30°	1475.1	23.1
30°-40°	1633.7	25.6
40°-50°	1274.1	20.0
50°-60°	534.0	8.4
60°-70°	107.0	1.7
70°-80°	17.0	0.3
80°-90°	2.7	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°	2808.5	44.0
0°-40°	4442.3	69.7
0°-60°	6250.3	98.0
0°-90°	6377.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6377.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3639	3639	3639	3639	3639	
5°	3616	3619	3627	3636	3634	343
15°	3446	3461	3500	3552	3575	972
25°	3160	3173	3204	3253	3275	1452
35°	2618	2614	2630	2642	2639	1627
45°	1730	1723	1678	1627	1606	1309
55°	522	542	577	600	611	508
65°	82	82	82	88	86	98
75°	24	22	22	17	15	19
85°	1	1	1	0	4	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3639.2	3639.2	3639.2	3639.2	3639.2
2.5°	3642.0	3635.0	3633.6	3637.8	3635.0
5°	3616.2	3619.0	3626.7	3636.4	3634.3
7.5°	3582.8	3587.7	3608.6	3633.6	3639.9
10°	3541.0	3551.5	3576.5	3605.1	3618.3
12.5°	3492.3	3506.2	3542.4	3583.5	3607.9
15°	3445.6	3461.0	3499.9	3551.5	3575.2
17.5°	3387.1	3407.3	3445.6	3501.3	3525.7
20°	3328.6	3346.7	3383.7	3438.0	3465.1
22.5°	3256.2	3269.4	3304.3	3350.2	3378.1
25°	3160.1	3172.7	3204.0	3253.4	3275.0
27.5°	3052.9	3067.5	3096.1	3130.2	3149.7
30°	2926.1	2938.0	2958.2	2988.8	3003.4
32.5°	2783.4	2784.1	2804.3	2827.3	2840.5
35°	2617.6	2613.5	2629.5	2642.0	2639.2
37.5°	2434.5	2435.2	2433.8	2435.2	2438.0
40°	2229.8	2220.0	2227.7	2210.3	2197.7
42.5°	2012.5	2002.8	1972.8	1934.5	1913.6
45°	1730.5	1722.8	1678.2	1626.7	1605.8
47.5°	1420.6	1396.9	1360.7	1316.8	1296.6
50°	1092.6	1089.8	1068.2	1057.8	1039.7
52.5°	781.3	781.3	807.8	803.6	802.9
55°	521.6	541.8	576.6	599.6	610.7
57.5°	339.8	358.6	387.9	412.2	423.4
60°	220.1	229.1	250.0	268.8	282.0
62.5°	136.5	144.1	155.3	167.1	172.0
65°	81.5	81.5	82.2	88.4	85.7
67.5°	55.0	57.1	54.3	54.3	61.3
70°	35.5	33.4	32.7	32.0	32.0
72.5°	23.0	19.5	20.9	22.3	19.5
75°	23.7	21.6	21.6	16.7	15.3
77.5°	8.4	9.1	6.3	4.9	4.2
80°	0.7	2.8	2.8	0.7	0.0
82.5°	8.4	7.7	6.3	9.7	6.3
85°	0.7	1.4	0.7	0.0	3.5
87.5°	0.0	0.0	0.0	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)