

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: P247518

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247518  
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 EC8B809727 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5285.0 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

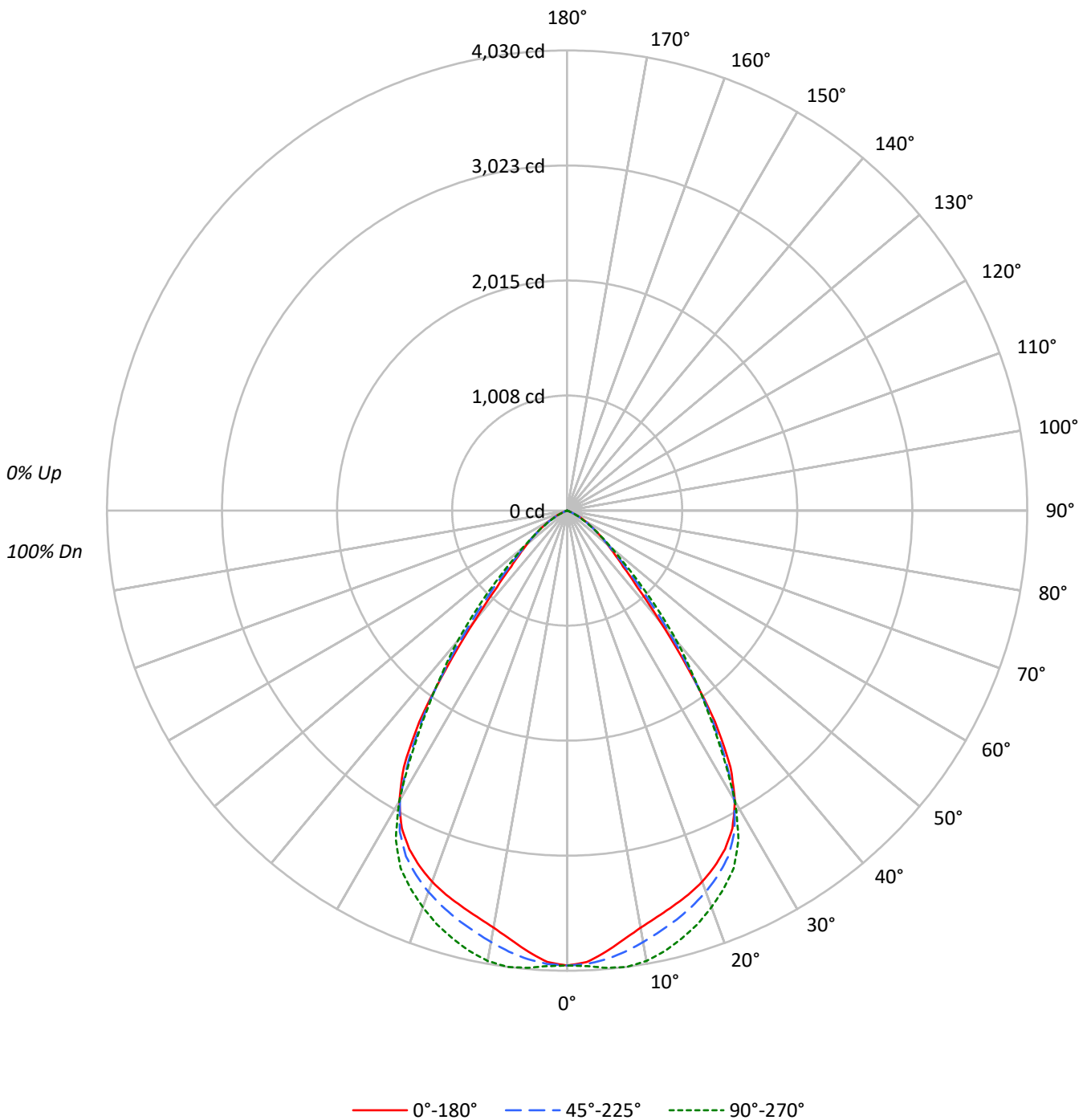
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42

**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°	373.6	7.1
10°-20°	1049.1	19.8
20°-30°	1524.7	28.9
30°-40°	1348.4	25.5
40°-50°	641.4	12.1
50°-60°	267.2	5.1
60°-70°	74.6	1.4
70°-80°	5.7	0.1
80°-90°	0.4	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°	2947.3	55.8
0°-40°	4295.7	81.3
0°-60°	5204.3	98.5
0°-90°	5285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3984	3984	3984	3984	3984	
5°	3879	3899	3944	3997	4020	365
15°	3585	3618	3708	3821	3880	1013
25°	3271	3286	3341	3415	3453	1495
35°	2258	2226	2182	2149	2149	1352
45°	693	717	780	852	886	577
55°	297	293	286	286	292	270
65°	74	73	69	66	65	81
75°	5	4	4	4	4	7
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°	3984.2	3984.2	3984.2	3984.2	3984.2
2.5°	3957.8	3961.2	3974.5	3987.0	3992.6
5°	3879.1	3898.6	3944.5	3996.8	4019.7
7.5°	3789.3	3818.5	3895.8	3987.7	4030.2
10°	3707.8	3744.7	3837.3	3950.8	4004.4
12.5°	3643.8	3677.9	3772.6	3890.9	3951.5
15°	3585.3	3618.0	3707.8	3820.6	3879.8
17.5°	3526.8	3558.2	3635.4	3740.6	3797.6
20°	3458.6	3483.7	3553.3	3645.9	3696.0
22.5°	3373.7	3396.6	3455.1	3537.3	3582.5
25°	3271.3	3286.0	3341.0	3414.7	3453.0
27.5°	3135.6	3139.1	3172.5	3220.5	3249.1
30°	2938.6	2936.5	2927.4	2925.3	2941.3
32.5°	2662.9	2632.2	2579.3	2554.3	2534.8
35°	2258.4	2226.4	2182.5	2149.1	2149.1
37.5°	1726.5	1754.4	1771.8	1792.7	1803.1
40°	1253.8	1294.9	1381.9	1472.4	1496.8
42.5°	911.3	949.6	1043.6	1144.5	1173.8
45°	692.7	717.1	779.7	852.1	885.5
47.5°	559.7	566.7	598.0	641.2	657.2
50°	458.8	460.9	470.6	492.9	505.4
52.5°	371.1	369.7	372.5	378.7	384.3
55°	296.6	293.1	286.1	286.1	292.4
57.5°	229.0	224.2	216.5	213.0	210.9
60°	175.4	170.6	162.2	156.6	155.9
62.5°	126.0	121.8	113.5	108.6	107.2
65°	74.5	73.1	68.9	66.1	65.4
67.5°	34.8	33.4	29.9	28.5	27.8
70°	16.7	16.0	14.6	13.9	13.2
72.5°	8.4	8.4	7.0	7.0	7.0
75°	4.9	4.2	3.5	3.5	3.5
77.5°	2.8	2.1	2.1	2.1	2.1
80°	1.4	1.4	1.4	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	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)