

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: P247534

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80835 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8358.0 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

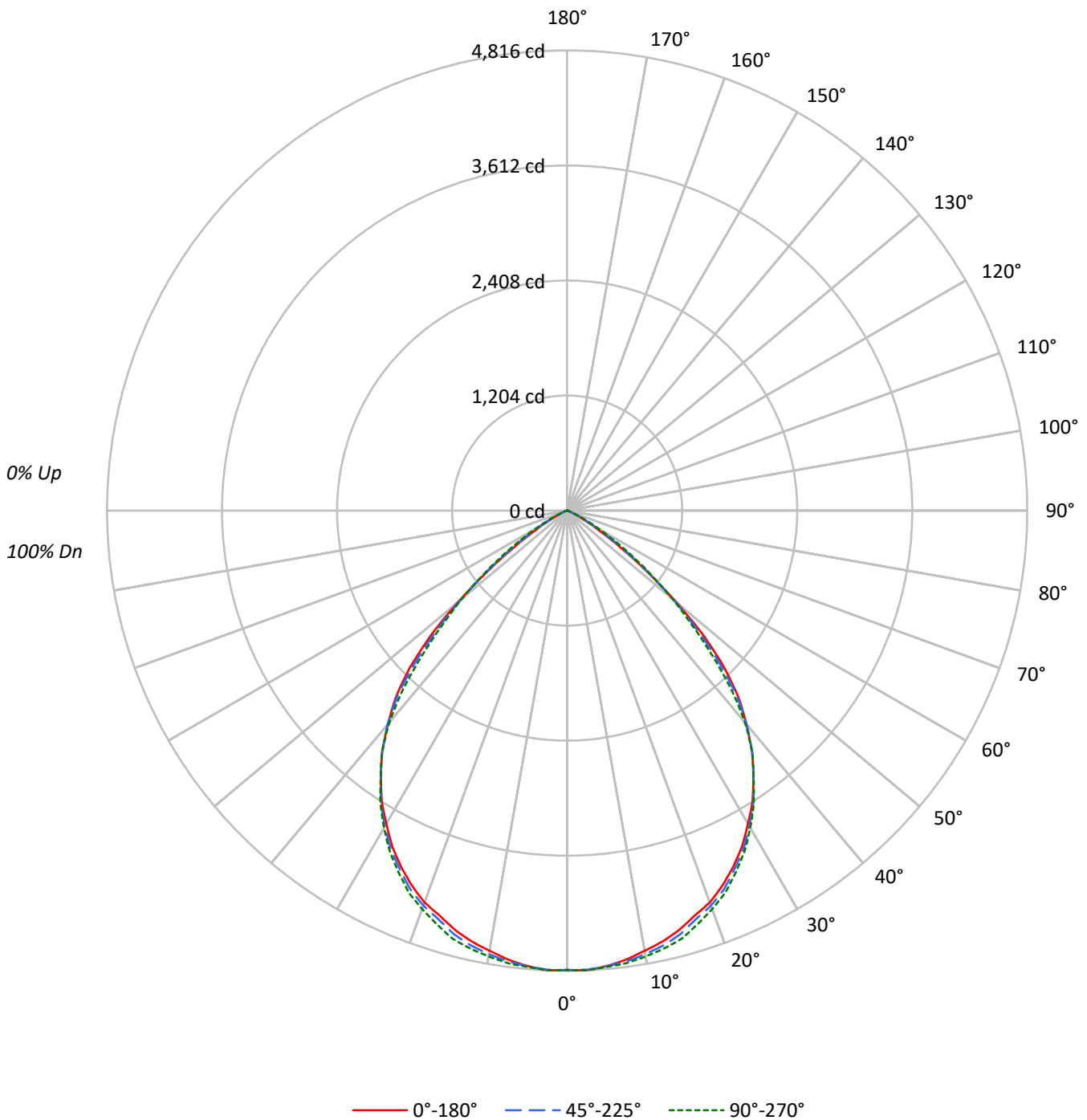
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	148267	148267	148267
5°	148091	148153	148369
10°	146484	147611	148363
15°	144974	146474	148070
20°	143213	144361	145608
25°	139914	140935	142091
30°	134775	135808	136520
35°	127881	127994	128032
40°	117505	117707	116499
45°	101657	98081	93720
50°	71292	69853	68942
55°	38708	41934	44676
60°	17083	20845	23621
65°	6567	8245	9850
70°	3336	2975	3877
75°	1072	2025	1787
80°	888	178	1065
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.8	5.4
10°-20°	1291.7	15.5
20°-30°	1904.9	22.8
30°-40°	2120.2	25.4
40°-50°	1706.3	20.4
50°-60°	725.6	8.7
60°-70°	136.0	1.6
70°-80°	16.5	0.2
80°-90°	2.1	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°	3651.3	43.7
0°-40°	5771.5	69.1
0°-60°	8203.4	98.2
0°-90°	8358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8358.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4808	4808	4808	4808	4808	
5°	4784	4785	4786	4794	4793	453
15°	4541	4566	4588	4623	4638	1280
25°	4112	4127	4142	4166	4176	1890
35°	3397	3398	3400	3401	3401	2116
45°	2331	2312	2249	2181	2149	1753
55°	720	736	780	811	831	686
65°	90	100	113	121	135	117
75°	9	11	17	16	15	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4808.2	4808.2	4808.2	4808.2	4808.2
2.5°	4816.2	4819.2	4809.2	4811.2	4814.2
5°	4784.2	4785.2	4786.2	4794.2	4793.2
7.5°	4739.2	4746.2	4758.2	4773.2	4777.2
10°	4678.2	4696.2	4714.2	4732.2	4738.2
12.5°	4618.2	4629.2	4661.2	4679.2	4694.2
15°	4541.2	4566.2	4588.2	4623.2	4638.2
17.5°	4443.2	4461.2	4482.2	4517.2	4538.2
20°	4364.2	4369.2	4399.2	4430.2	4437.2
22.5°	4247.2	4258.2	4289.2	4310.2	4328.2
25°	4112.2	4127.2	4142.2	4166.2	4176.2
27.5°	3964.1	3973.1	3994.1	4011.1	4020.1
30°	3785.1	3805.1	3814.1	3822.1	3834.1
32.5°	3611.1	3617.1	3625.1	3630.1	3636.1
35°	3397.1	3398.1	3400.1	3401.1	3401.1
37.5°	3178.1	3185.1	3183.1	3177.1	3180.1
40°	2919.1	2931.1	2924.1	2906.1	2894.1
42.5°	2658.1	2652.1	2628.1	2574.1	2549.1
45°	2331.1	2312.1	2249.1	2181.1	2149.1
47.5°	1939.1	1897.1	1844.1	1791.1	1770.1
50°	1486.1	1480.1	1456.1	1435.1	1437.1
52.5°	1065.0	1080.0	1085.0	1105.0	1115.0
55°	720.0	736.0	780.0	811.0	831.0
57.5°	438.0	469.0	516.0	567.0	593.0
60°	277.0	295.0	338.0	371.0	383.0
62.5°	173.0	174.0	195.0	221.0	232.0
65°	90.0	100.0	113.0	121.0	135.0
67.5°	56.0	56.0	55.0	67.0	75.0
70°	37.0	32.0	33.0	40.0	43.0
72.5°	13.0	22.0	20.0	20.0	14.0
75°	9.0	11.0	17.0	16.0	15.0
77.5°	12.0	11.0	8.0	7.0	14.0
80°	5.0	4.0	1.0	6.0	6.0
82.5°	5.0	2.0	6.0	8.0	5.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)