

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: P247624

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100827 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9480.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

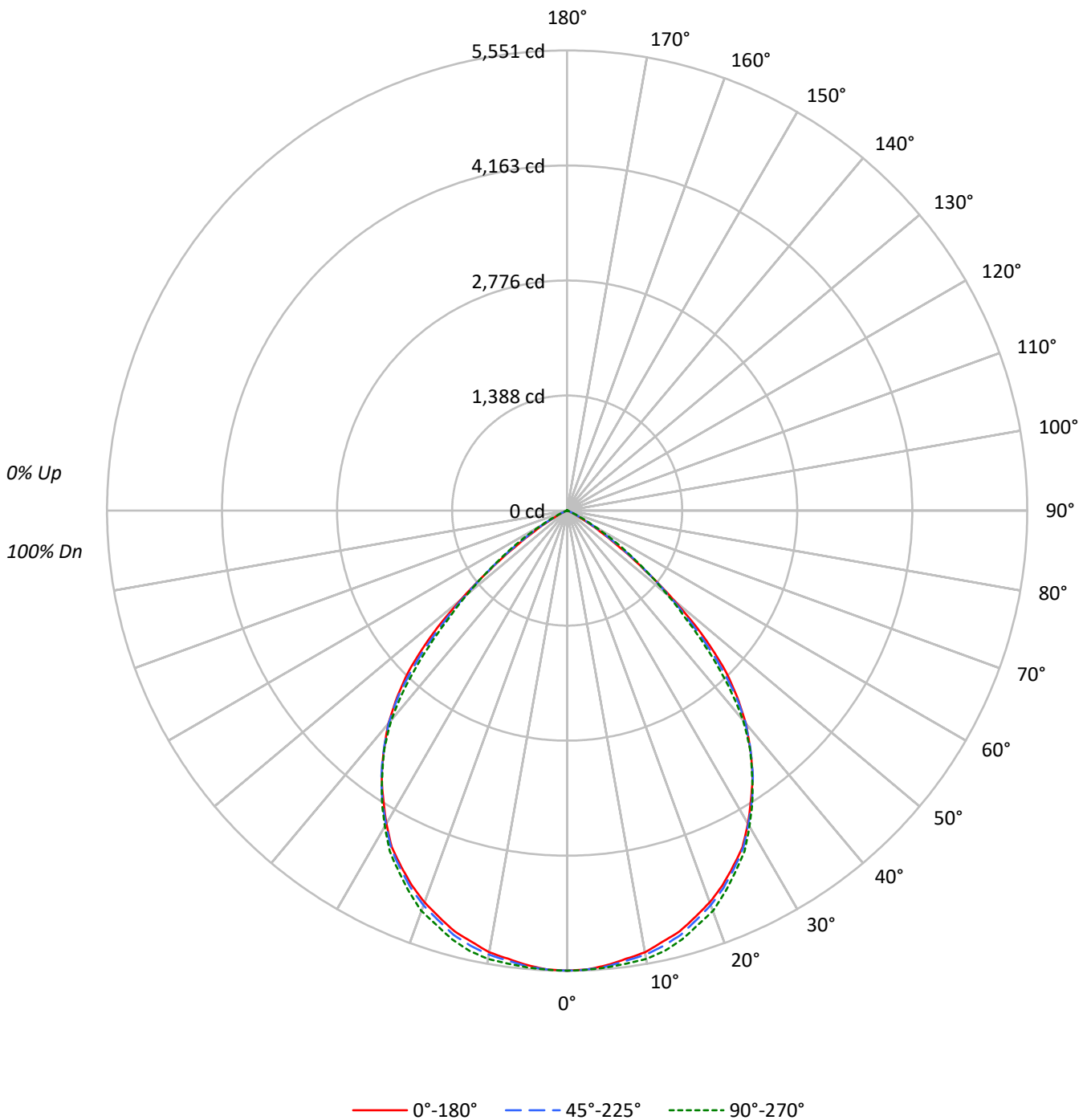
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	171163	171163	171163
5°	170384	170836	171250
10°	169414	170331	171934
15°	167704	169147	170973
20°	165025	166226	168667
25°	161189	162064	163513
30°	155231	155623	156620
35°	146812	147042	146447
40°	134907	134758	132894
45°	116005	111273	106171
50°	80652	77783	75620
55°	42079	45751	48434
60°	17065	20148	23386
65°	5429	6669	7114
70°	766	442	216
75°	0	0	0
80°	1953	426	657
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.2	5.5
10°-20°	1491.7	15.7
20°-30°	2191.4	23.1
30°-40°	2426.2	25.6
40°-50°	1933.5	20.4
50°-60°	792.3	8.4
60°-70°	116.7	1.2
70°-80°	1.7	0.0
80°-90°	2.4	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°	4207.3	44.4
0°-40°	6633.5	70.0
0°-60°	9359.3	98.7
0°-90°	9480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5551	5551	5551	5551	5551	
5°	5504	5514	5519	5528	5532	522
15°	5253	5257	5298	5348	5356	1478
25°	4738	4733	4763	4791	4806	2179
35°	3900	3895	3906	3901	3890	2424
45°	2660	2636	2552	2457	2435	1996
55°	783	810	851	900	901	753
65°	74	78	91	100	98	99
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5550.7	5550.7	5550.7	5550.7	5550.7
2.5°	5541.0	5542.2	5542.2	5536.1	5543.4
5°	5504.4	5514.1	5519.0	5527.5	5532.4
7.5°	5453.2	5450.7	5476.3	5506.8	5510.5
10°	5410.5	5405.6	5439.8	5480.0	5491.0
12.5°	5326.4	5332.5	5376.4	5417.8	5439.8
15°	5253.2	5256.9	5298.4	5348.3	5355.6
17.5°	5139.9	5150.8	5178.9	5231.3	5241.1
20°	5028.9	5033.8	5065.5	5108.2	5139.9
22.5°	4893.6	4902.1	4926.5	4964.3	4980.2
25°	4737.5	4732.7	4763.2	4791.2	4805.8
27.5°	4579.1	4570.5	4593.7	4620.5	4633.9
30°	4359.6	4357.2	4370.6	4387.7	4398.6
32.5°	4129.2	4135.3	4148.7	4153.6	4157.2
35°	3900.0	3895.1	3906.1	3901.2	3890.3
37.5°	3628.1	3631.8	3631.8	3626.9	3622.0
40°	3351.4	3355.1	3347.7	3320.9	3301.4
42.5°	3027.1	3029.5	2991.8	2932.0	2891.8
45°	2660.1	2635.8	2551.6	2456.6	2434.6
47.5°	2198.1	2156.6	2068.9	1996.9	1971.3
50°	1681.2	1650.7	1621.4	1583.7	1576.3
52.5°	1178.9	1194.8	1205.7	1217.9	1214.3
55°	782.7	809.5	851.0	899.7	900.9
57.5°	470.6	501.1	553.5	607.1	632.7
60°	276.7	288.9	326.7	367.0	379.2
62.5°	150.0	153.6	170.7	210.9	204.8
65°	74.4	78.0	91.4	100.0	97.5
67.5°	36.6	40.2	42.7	54.9	45.1
70°	8.5	2.4	4.9	6.1	2.4
72.5°	0.0	0.0	2.4	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.4	0.0	0.0	0.0	4.9
80°	11.0	7.3	2.4	2.4	3.7
82.5°	3.7	1.2	3.7	1.2	0.0
85°	0.0	0.0	0.0	4.9	0.0
87.5°	6.1	1.2	1.2	3.7	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)