

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: P247612

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100950 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6627.0 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

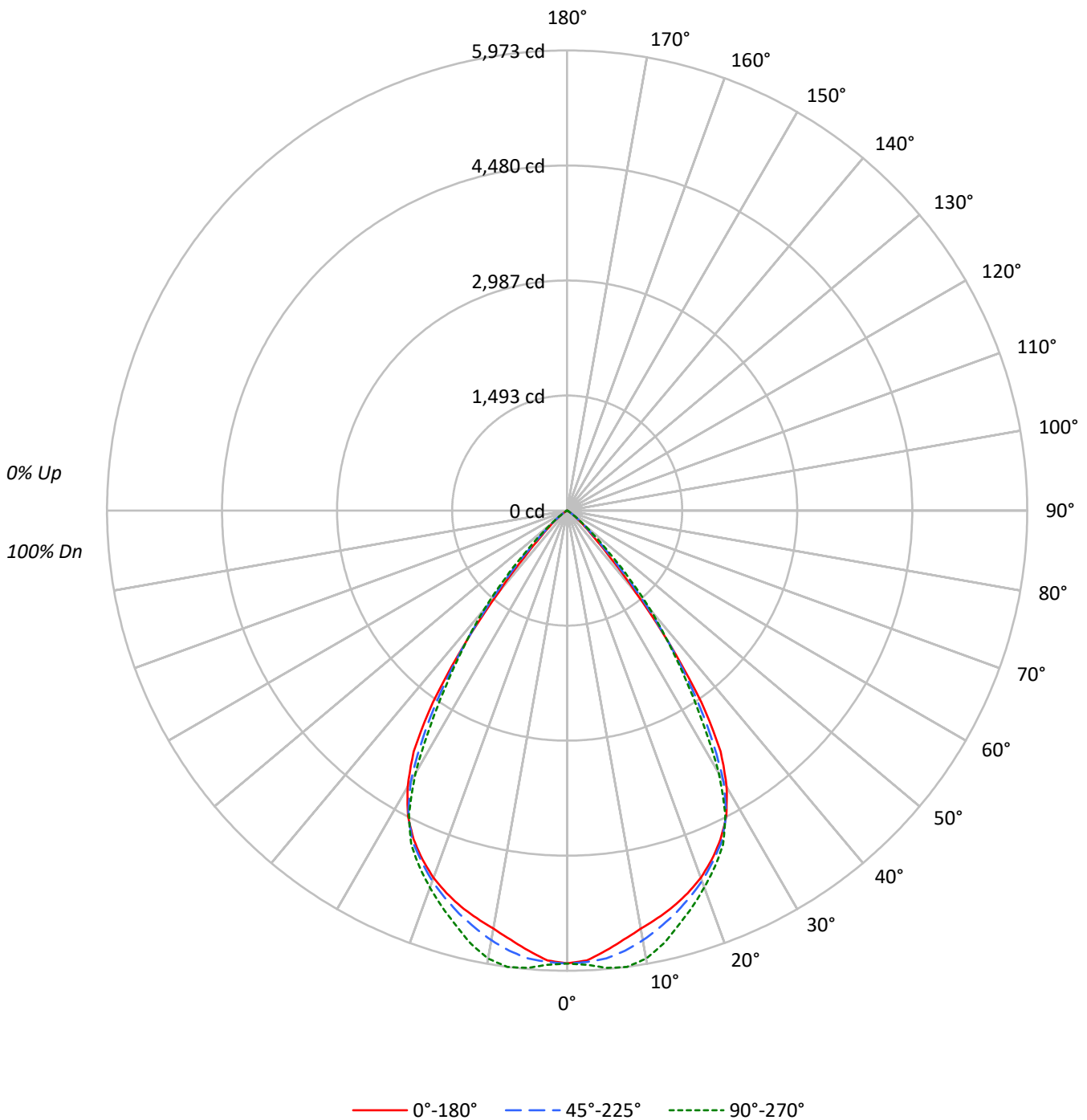
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86					86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79					79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73					73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68					68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63					63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58					58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54					54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50					50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47					47			

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

	0°	45°	90°
0°	181256	181256	181256
5°	177534	180651	184434
10°	172532	177336	184879
15°	169900	172920	178009
20°	166423	167959	170866
25°	160281	161424	162850
30°	147469	144610	140340
35°	114269	106465	101142
40°	55522	63001	67486
45°	21477	27644	33501
50°	10060	11499	13164
55°	4188	4511	4640
60°	1406	1332	1258
65°	175	263	263
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.5	8.3
10°-20°	1529.0	23.1
20°-30°	2154.5	32.5
30°-40°	1743.1	26.3
40°-50°	553.4	8.3
50°-60°	88.5	1.3
60°-70°	6.0	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4236.1	63.9
0°-40°	5979.2	90.2
0°-60°	6621.0	99.9
0°-90°	6627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5878	5878	5878	5878	5878	
5°	5735	5762	5836	5921	5958	540
15°	5322	5342	5417	5520	5576	1499
25°	4711	4719	4744	4771	4786	2151
35°	3036	2953	2828	2726	2687	1800
45°	492	532	634	724	768	459
55°	78	79	84	88	86	81
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5878.0	5878.0	5878.0	5878.0	5878.0
2.5°	5844.5	5850.5	5864.8	5892.4	5900.8
5°	5735.4	5761.8	5836.1	5921.2	5958.3
7.5°	5618.0	5652.7	5761.8	5905.6	5972.7
10°	5510.1	5547.3	5663.5	5816.9	5904.4
12.5°	5419.0	5447.8	5542.5	5680.3	5761.8
15°	5322.0	5342.3	5416.6	5519.7	5576.0
17.5°	5205.7	5223.7	5272.8	5353.1	5396.3
20°	5071.5	5076.3	5118.3	5169.8	5206.9
22.5°	4904.9	4909.7	4933.7	4982.8	5008.0
25°	4710.8	4719.2	4744.4	4770.7	4786.3
27.5°	4472.3	4475.9	4463.9	4442.4	4447.2
30°	4141.6	4128.4	4061.3	3969.0	3941.4
32.5°	3707.8	3620.3	3475.3	3345.9	3293.1
35°	3035.5	2952.8	2828.2	2726.3	2686.8
37.5°	2181.0	2187.0	2178.6	2155.9	2160.7
40°	1379.3	1434.5	1565.1	1650.2	1676.5
42.5°	828.1	888.0	1031.8	1146.8	1184.0
45°	492.5	532.1	633.9	723.8	768.2
47.5°	316.4	335.5	385.9	438.6	463.8
50°	209.7	219.3	239.7	263.6	274.4
52.5°	134.2	137.8	147.4	155.8	164.2
55°	77.9	79.1	83.9	87.5	86.3
57.5°	40.7	40.7	40.7	40.7	40.7
60°	22.8	21.6	21.6	21.6	20.4
62.5°	10.8	10.8	10.8	9.6	9.6
65°	2.4	3.6	3.6	3.6	3.6
67.5°	0.0	0.0	0.0	0.0	1.2
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)