

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: P247172

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9346.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

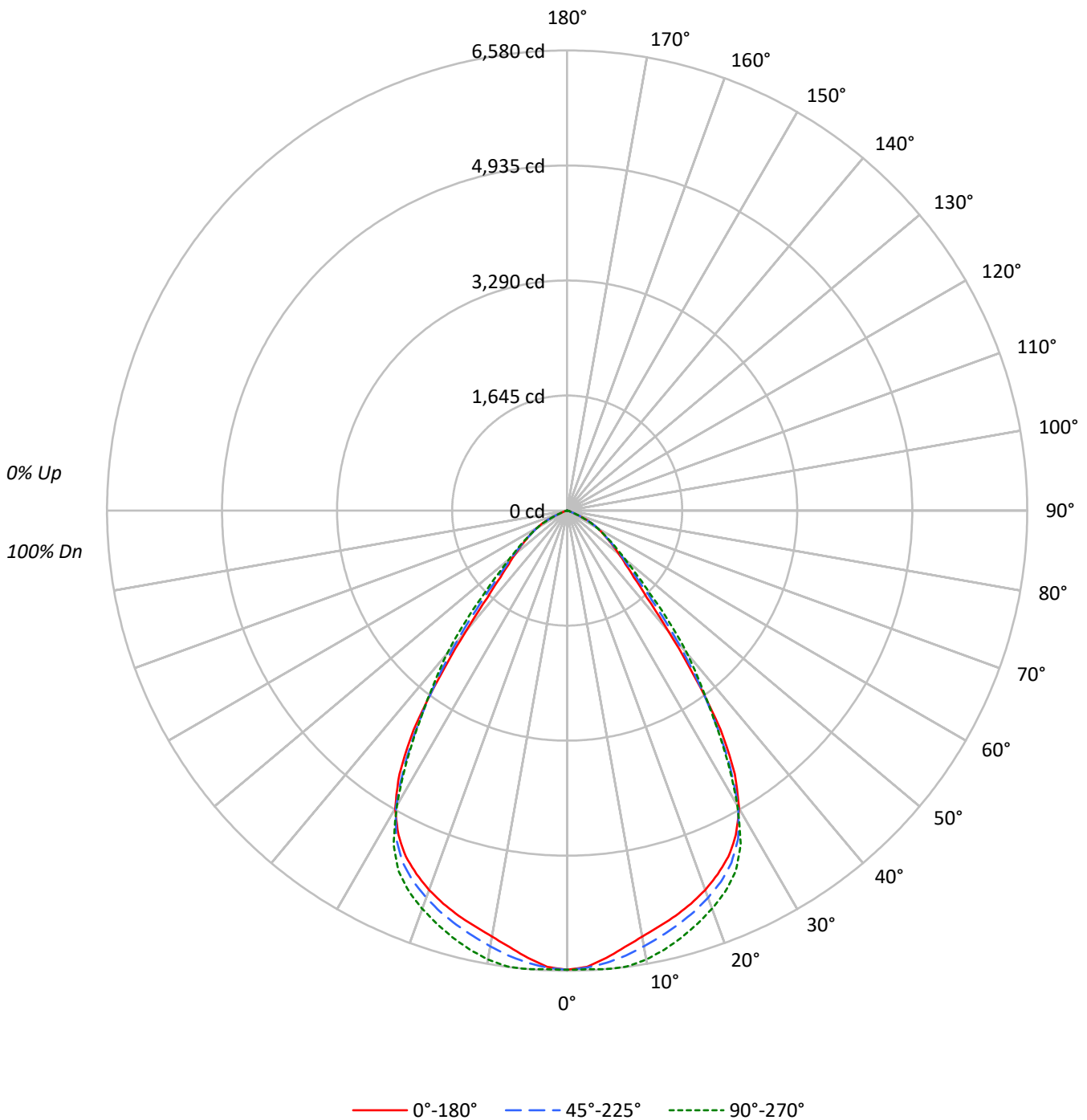
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	202471	202471	202471
5°	198750	200911	203690
10°	193659	198064	204067
15°	191465	195676	201760
20°	189463	193282	198808
25°	185734	189089	193842
30°	175117	174330	173262
35°	144049	139084	138290
40°	90197	99524	107595
45°	58864	65627	72731
50°	46409	48644	51835
55°	37832	38488	39681
60°	30960	30756	30620
65°	20051	19489	18438
70°	6897	6392	5896
75°	2371	2240	2109
80°	977	781	781
85°	389	389	389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.1	6.6
10°-20°	1732.9	18.5
20°-30°	2534.5	27.1
30°-40°	2296.5	24.6
40°-50°	1221.1	13.1
50°-60°	651.7	7.0
60°-70°	265.8	2.8
70°-80°	26.8	0.3
80°-90°	1.6	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°	4882.5	52.2
0°-40°	7179.0	76.8
0°-60°	9051.8	96.9
0°-90°	9346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6566	6566	6566	6566	6566	
5°	6421	6437	6491	6549	6580	605
15°	5998	6032	6129	6256	6320	1692
25°	5459	5482	5558	5653	5697	2495
35°	3827	3773	3695	3667	3674	2300
45°	1350	1390	1505	1625	1668	1104
55°	704	703	716	726	738	638
65°	275	274	267	252	253	274
75°	20	20	19	18	18	29
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6566.0	6566.0	6566.0	6566.0	6566.0
2.5°	6530.5	6529.4	6541.6	6556.0	6563.8
5°	6420.8	6437.4	6490.6	6549.4	6580.4
7.5°	6296.7	6327.7	6419.7	6520.6	6574.9
10°	6184.8	6224.7	6325.5	6457.4	6517.2
12.5°	6088.4	6127.1	6229.1	6364.3	6429.7
15°	5997.5	6031.8	6129.4	6255.7	6320.0
17.5°	5892.2	5925.5	6019.7	6139.3	6194.7
20°	5773.6	5801.3	5890.0	6001.9	6058.4
22.5°	5626.2	5656.2	5745.9	5849.0	5902.2
25°	5458.9	5482.2	5557.5	5652.8	5697.2
27.5°	5226.2	5247.3	5291.6	5342.6	5375.8
30°	4918.1	4912.6	4896.0	4880.4	4866.0
32.5°	4463.8	4410.6	4329.7	4278.7	4280.9
35°	3826.6	3773.4	3694.7	3667.0	3673.6
37.5°	2989.9	3029.8	3061.9	3115.1	3140.6
40°	2240.7	2309.5	2472.4	2614.2	2672.9
42.5°	1684.4	1752.0	1922.7	2072.3	2153.2
45°	1349.8	1389.7	1504.9	1624.6	1667.8
47.5°	1130.3	1148.1	1214.6	1291.0	1328.7
50°	967.4	978.5	1014.0	1056.1	1080.5
52.5°	828.9	833.4	851.1	875.5	891.0
55°	703.7	702.6	715.9	725.9	738.1
57.5°	595.1	594.0	594.0	597.3	605.1
60°	502.0	498.7	498.7	494.3	496.5
62.5°	408.9	405.6	397.8	392.3	390.1
65°	274.8	273.7	267.1	251.6	252.7
67.5°	143.0	141.8	135.2	130.8	128.5
70°	76.5	74.2	70.9	67.6	65.4
72.5°	38.8	37.7	36.6	34.4	34.4
75°	19.9	19.9	18.8	17.7	17.7
77.5°	10.0	10.0	8.9	8.9	8.9
80°	5.5	5.5	4.4	4.4	4.4
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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)