

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: P247700

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100935 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9592.0 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

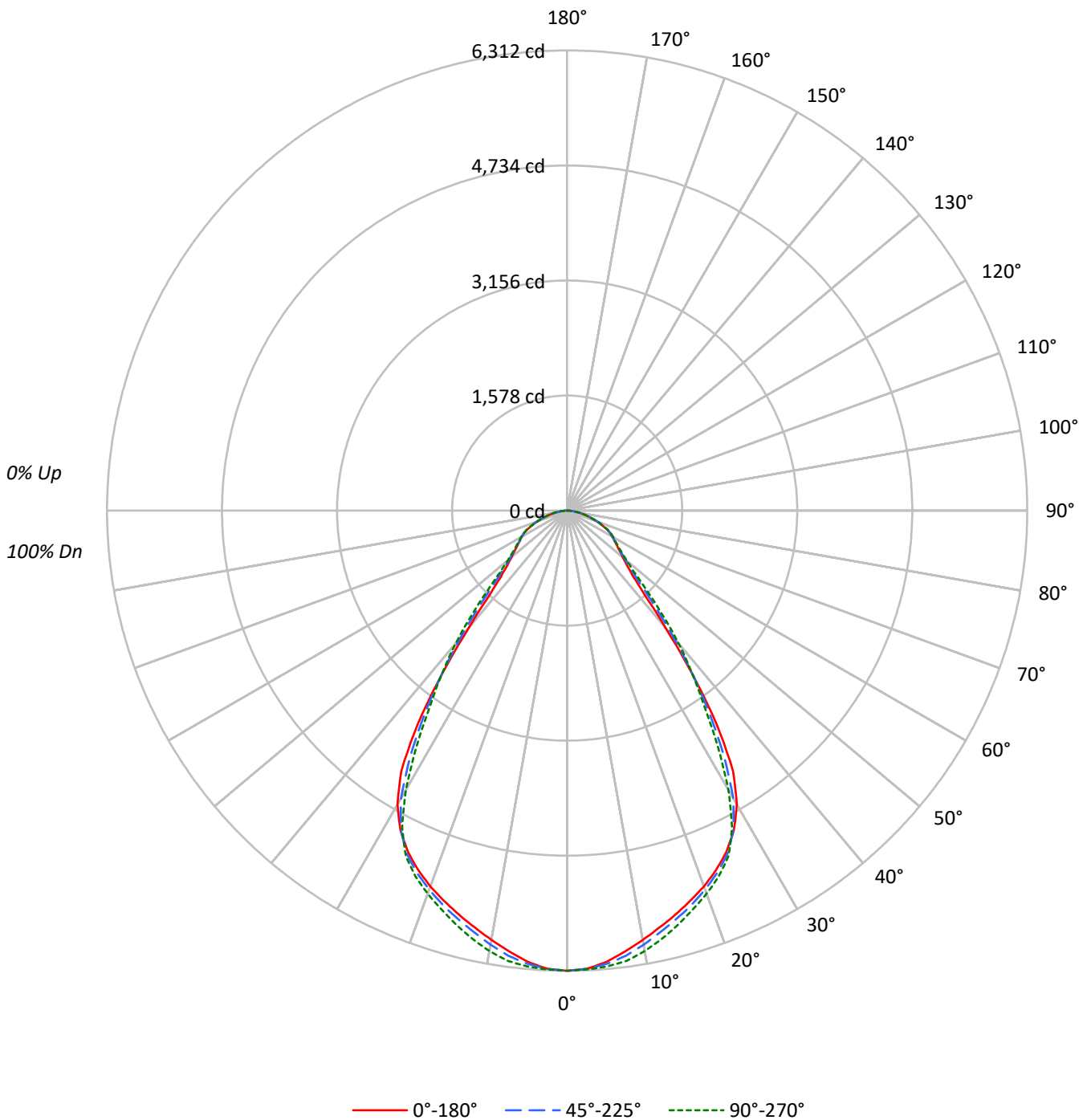
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	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°	194645	194645	194645
5°	192268	193194	194290
10°	187240	189319	192096
15°	183152	185096	187749
20°	180008	181534	183536
25°	175779	176874	178041
30°	165728	162174	157399
35°	134537	128487	123563
40°	84131	91316	95732
45°	56060	61328	66548
50°	47795	49230	50928
55°	44681	45278	45934
60°	44287	44558	44972
65°	43181	43662	43991
70°	39165	39463	39769
75°	34194	34587	34730
80°	29123	29123	29904
85°	23528	23528	23528



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.8	6.1
10°-20°	1636.5	17.1
20°-30°	2365.8	24.7
30°-40°	2117.3	22.1
40°-50°	1145.8	11.9
50°-60°	763.7	8.0
60°-70°	584.8	6.1
70°-80°	309.9	3.2
80°-90°	78.4	0.8
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°	4592.1	47.9
0°-40°	6709.3	69.9
0°-60°	8618.8	89.9
0°-90°	9592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6312	6312	6312	6312	6312	
5°	6211	6215	6241	6266	6277	585
15°	5737	5748	5798	5854	5881	1619
25°	5166	5178	5198	5223	5233	2364
35°	3574	3537	3413	3315	3282	2163
45°	1286	1323	1406	1494	1526	1058
55°	831	834	842	851	854	752
65°	592	594	598	603	603	580
75°	287	287	290	292	292	308
85°	66	66	66	68	66	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6312.2	6312.2	6312.2	6312.2	6312.2
2.5°	6291.2	6288.9	6290.0	6296.7	6300.0
5°	6211.4	6214.7	6241.3	6265.7	6276.7
7.5°	6099.4	6113.8	6159.3	6206.9	6231.3
10°	5979.8	5994.2	6046.2	6113.8	6134.9
12.5°	5856.7	5874.5	5921.0	5989.7	6015.2
15°	5737.1	5748.1	5798.0	5854.5	5881.1
17.5°	5614.1	5625.1	5670.6	5714.9	5736.0
20°	5485.5	5497.7	5532.0	5569.7	5593.0
22.5°	5338.1	5350.3	5379.1	5412.4	5433.4
25°	5166.3	5178.5	5198.5	5222.9	5232.8
27.5°	4949.1	4956.9	4938.1	4918.1	4900.4
30°	4654.4	4630.0	4554.6	4458.2	4420.5
32.5°	4235.5	4156.8	4011.6	3894.2	3850.9
35°	3573.9	3537.3	3413.2	3314.6	3282.4
37.5°	2802.6	2827.0	2818.1	2811.5	2818.1
40°	2090.0	2146.6	2268.5	2351.6	2378.2
42.5°	1582.5	1636.8	1774.2	1889.5	1929.3
45°	1285.5	1323.2	1406.3	1493.8	1526.0
47.5°	1109.3	1130.3	1172.5	1219.0	1234.5
50°	996.3	1005.1	1026.2	1052.8	1061.6
52.5°	906.5	910.9	923.1	937.5	939.7
55°	831.1	834.5	842.2	851.1	854.4
57.5°	768.0	771.3	773.5	779.1	781.3
60°	718.1	718.1	722.5	727.0	729.2
62.5°	663.8	663.8	668.2	672.7	672.7
65°	591.8	594.0	598.4	602.9	602.9
67.5°	513.1	514.2	517.5	522.0	520.8
70°	434.4	434.4	437.7	439.9	441.1
72.5°	359.1	357.9	363.5	364.6	361.3
75°	287.0	287.0	290.3	291.5	291.5
77.5°	223.9	222.7	222.7	223.9	225.0
80°	164.0	165.1	164.0	166.2	168.4
82.5°	114.1	113.0	113.0	113.0	111.9
85°	66.5	66.5	66.5	67.6	66.5
87.5°	26.6	26.6	25.5	25.5	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)