

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: P247144

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247144
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 EC8B100827 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10282.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

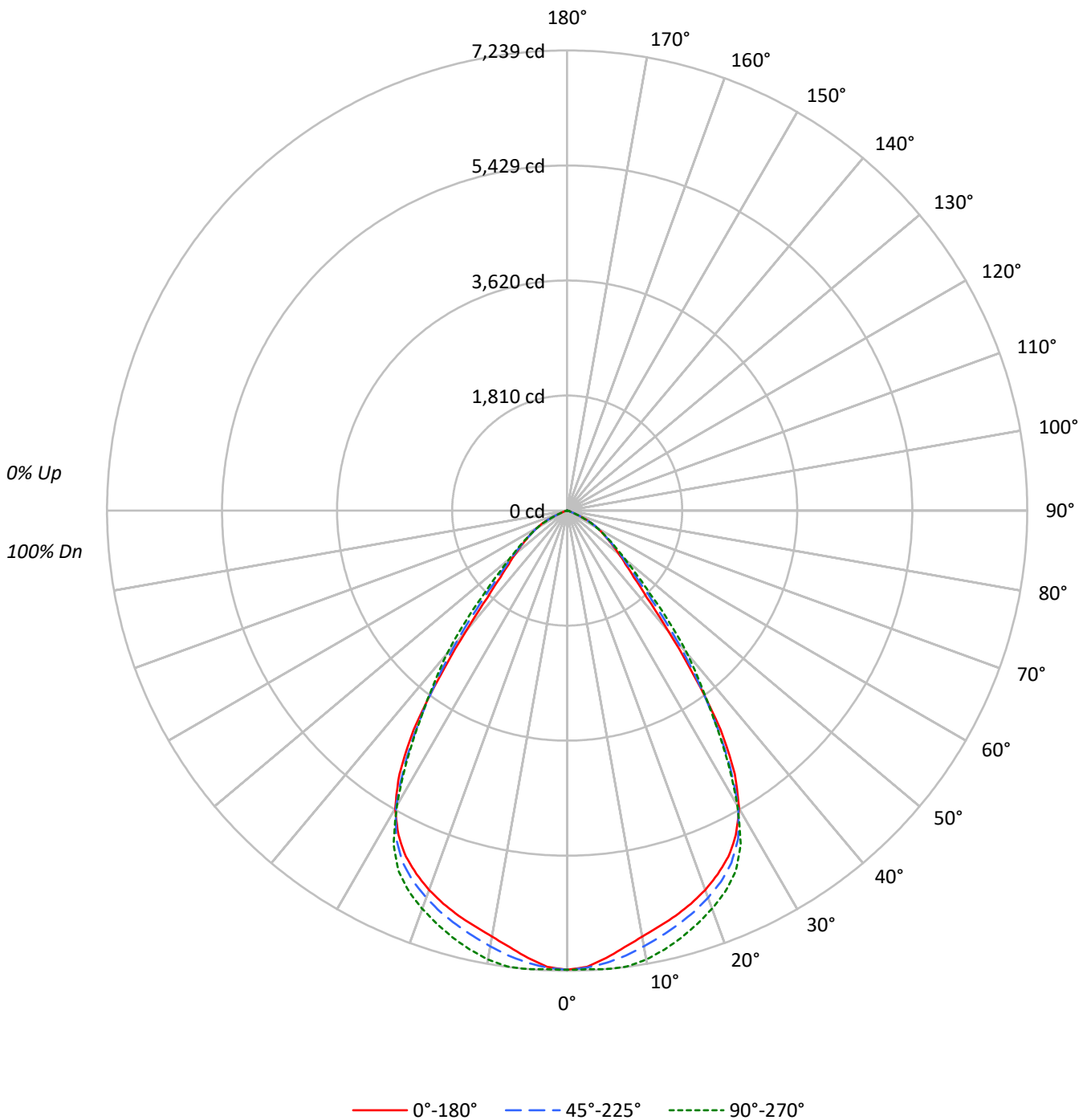
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	222749	222749	222749
5°	218657	221034	224089
10°	213053	217900	224504
15°	210638	215271	221965
20°	208440	212640	218721
25°	204335	208027	213253
30°	192657	191788	190617
35°	158475	153012	152139
40°	99234	109491	118371
45°	64755	72199	80014
50°	51057	53514	57025
55°	41622	42343	43654
60°	34062	33834	33686
65°	22065	21437	20284
70°	7582	7032	6482
75°	2609	2466	2323
80°	1083	870	870
85°	425	425	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.7	6.6
10°-20°	1906.5	18.5
20°-30°	2788.3	27.1
30°-40°	2526.5	24.6
40°-50°	1343.4	13.1
50°-60°	717.0	7.0
60°-70°	292.4	2.8
70°-80°	29.5	0.3
80°-90°	1.7	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°	5371.4	52.2
0°-40°	7898.0	76.8
0°-60°	9958.3	96.9
0°-90°	10282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7224	7224	7224	7224	7224	
5°	7064	7082	7141	7205	7239	666
15°	6598	6636	6743	6882	6953	1861
25°	6006	6031	6114	6219	6268	2745
35°	4210	4151	4065	4034	4042	2530
45°	1485	1529	1656	1787	1835	1215
55°	774	773	788	799	812	702
65°	302	301	294	277	278	301
75°	22	22	21	20	20	32
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°	7223.6	7223.6	7223.6	7223.6	7223.6
2.5°	7184.6	7183.3	7196.8	7212.6	7221.1
5°	7063.9	7082.1	7140.7	7205.3	7239.4
7.5°	6927.3	6961.5	7062.6	7173.6	7233.3
10°	6804.2	6848.1	6959.0	7104.1	7169.9
12.5°	6698.1	6740.8	6852.9	7001.7	7073.6
15°	6598.1	6635.9	6743.2	6882.2	6952.9
17.5°	6482.3	6518.9	6622.5	6754.2	6815.2
20°	6351.9	6382.3	6479.9	6603.0	6665.2
22.5°	6189.7	6222.6	6321.4	6434.8	6493.3
25°	6005.6	6031.2	6114.1	6219.0	6267.7
27.5°	5749.6	5772.8	5821.5	5877.6	5914.2
30°	5410.7	5404.6	5386.3	5369.2	5353.4
32.5°	4910.8	4852.3	4763.3	4707.2	4709.6
35°	4209.8	4151.3	4064.7	4034.2	4041.5
37.5°	3289.3	3333.2	3368.6	3427.1	3455.1
40°	2465.2	2540.7	2720.0	2876.0	2940.6
42.5°	1853.1	1927.5	2115.3	2279.8	2368.8
45°	1484.9	1528.8	1655.6	1787.3	1834.8
47.5°	1243.6	1263.1	1336.2	1420.3	1461.8
50°	1064.3	1076.5	1115.5	1161.9	1188.7
52.5°	911.9	916.8	936.3	963.1	980.2
55°	774.2	773.0	787.6	798.6	812.0
57.5°	654.7	653.5	653.5	657.1	665.7
60°	552.3	548.6	548.6	543.7	546.2
62.5°	449.9	446.2	437.7	431.6	429.1
65°	302.4	301.1	293.8	276.8	278.0
67.5°	157.3	156.1	148.7	143.9	141.4
70°	84.1	81.7	78.0	74.4	71.9
72.5°	42.7	41.5	40.2	37.8	37.8
75°	21.9	21.9	20.7	19.5	19.5
77.5°	11.0	11.0	9.8	9.8	9.8
80°	6.1	6.1	4.9	4.9	4.9
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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)