

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: P247232

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B1009727 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8286.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

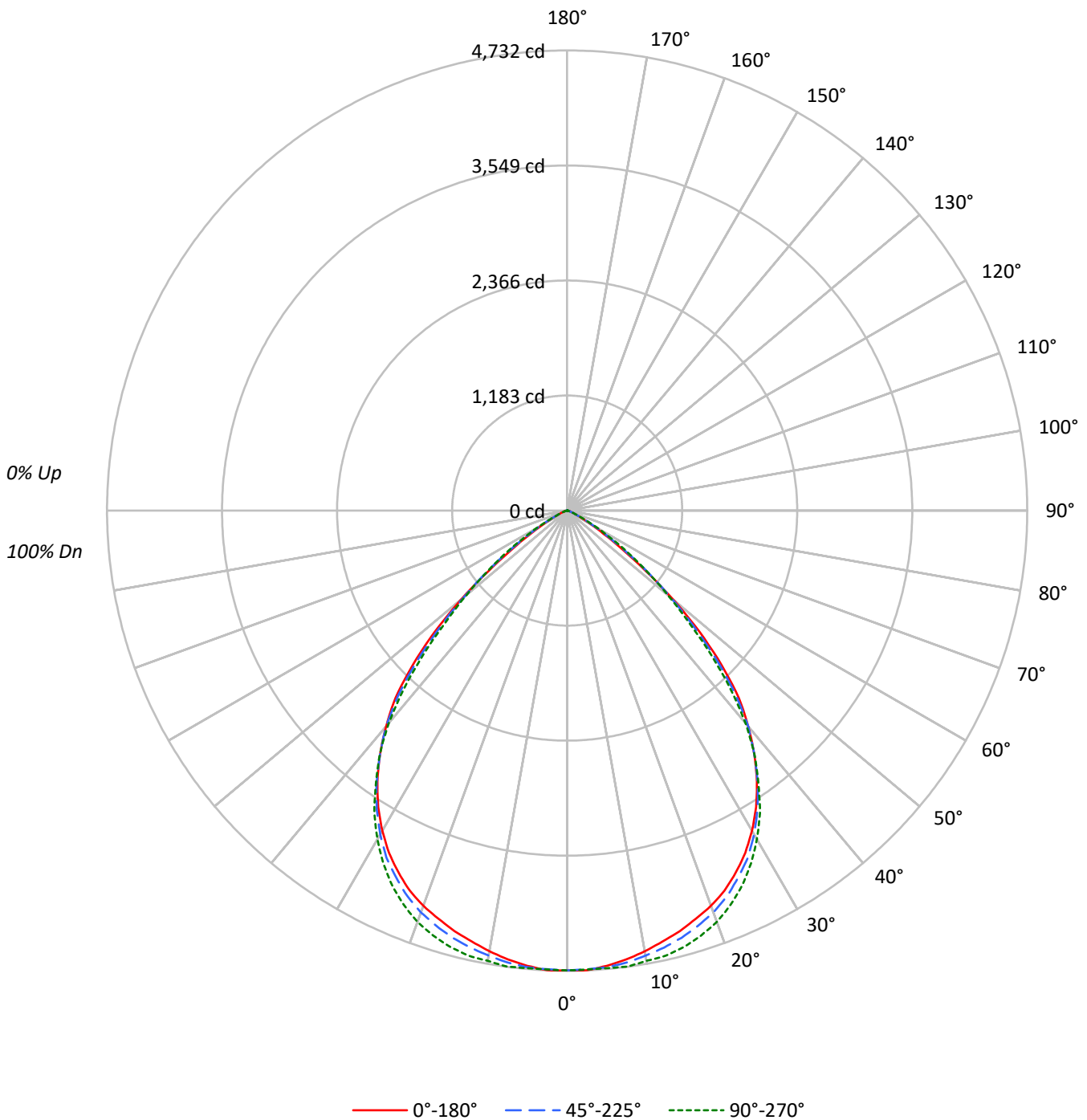
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	98	99	97	95	95	95	94	93	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	87	91	88	85	85	88	85	83	83	81	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	77	83	79	76	76	81	77	74	74	73	73	73	73
4	91	82	75	70	89	81	74	69	78	73	68	68	76	71	68	68	74	70	67	67	65	65	65	65
5	85	75	68	62	83	74	67	62	72	66	61	61	70	65	61	61	68	64	60	60	58	58	58	58
6	79	69	61	56	78	68	61	56	66	60	55	55	64	59	55	55	63	58	54	54	53	53	53	53
7	74	63	56	50	73	62	55	50	61	55	50	50	60	54	50	50	58	53	49	49	48	48	48	48
8	70	58	51	46	68	57	51	46	56	50	45	45	55	49	45	45	54	49	45	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	42	42	51	46	41	41	50	45	41	41	40	40	40	40
10	62	50	43	38	60	50	43	38	49	42	38	38	48	42	38	38	47	42	38	38	36	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	5.4
10°-20°	1284.6	15.5
20°-30°	1916.7	23.1
30°-40°	2122.8	25.6
40°-50°	1655.5	20.0
50°-60°	693.9	8.4
60°-70°	139.0	1.7
70°-80°	22.1	0.3
80°-90°	3.5	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°	3649.3	44.0
0°-40°	5772.1	69.7
0°-60°	8121.4	98.0
0°-90°	8286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8286.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4729	4729	4729	4729	4729	
5°	4699	4702	4712	4725	4722	445
15°	4477	4497	4548	4615	4645	1263
25°	4106	4122	4163	4227	4255	1887
35°	3401	3396	3417	3433	3429	2114
45°	2248	2239	2181	2114	2086	1701
55°	678	704	749	779	794	660
65°	106	106	107	115	111	128
75°	31	28	28	22	20	25
85°	1	2	1	0	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4728.6	4728.6	4728.6	4728.6	4728.6
2.5°	4732.3	4723.2	4721.4	4726.8	4723.2
5°	4698.8	4702.4	4712.4	4725.0	4722.3
7.5°	4655.4	4661.7	4688.8	4721.4	4729.6
10°	4601.1	4614.6	4647.2	4684.3	4701.5
12.5°	4537.7	4555.8	4602.9	4656.3	4687.9
15°	4477.1	4497.0	4547.7	4614.6	4645.4
17.5°	4401.1	4427.3	4477.1	4549.5	4581.2
20°	4325.1	4348.6	4396.6	4467.2	4502.4
22.5°	4231.0	4248.2	4293.4	4353.1	4389.3
25°	4106.1	4122.4	4163.1	4227.4	4255.4
27.5°	3966.8	3985.8	4022.9	4067.2	4092.6
30°	3802.1	3817.5	3843.7	3883.5	3902.5
32.5°	3616.6	3617.5	3643.8	3673.6	3690.8
35°	3401.3	3395.8	3416.6	3432.9	3429.3
37.5°	3163.3	3164.2	3162.4	3164.2	3167.8
40°	2897.3	2884.6	2894.6	2871.9	2855.6
42.5°	2615.0	2602.3	2563.4	2513.6	2486.5
45°	2248.5	2238.6	2180.6	2113.7	2086.5
47.5°	1845.9	1815.1	1768.0	1711.0	1684.8
50°	1419.7	1416.1	1388.0	1374.4	1350.9
52.5°	1015.2	1015.2	1049.6	1044.2	1043.3
55°	677.7	704.0	749.2	779.1	793.5
57.5°	441.6	466.0	504.0	535.7	550.1
60°	285.9	297.7	324.8	349.3	366.5
62.5°	177.3	187.3	201.8	217.2	223.5
65°	105.9	105.9	106.8	114.9	111.3
67.5°	71.5	74.2	70.6	70.6	79.6
70°	46.1	43.4	42.5	41.6	41.6
72.5°	29.9	25.3	27.1	29.0	25.3
75°	30.8	28.0	28.0	21.7	19.9
77.5°	10.9	11.8	8.1	6.3	5.4
80°	0.9	3.6	3.6	0.9	0.0
82.5°	10.9	10.0	8.1	12.7	8.1
85°	0.9	1.8	0.9	0.0	4.5
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)