

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: P247460

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10342.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

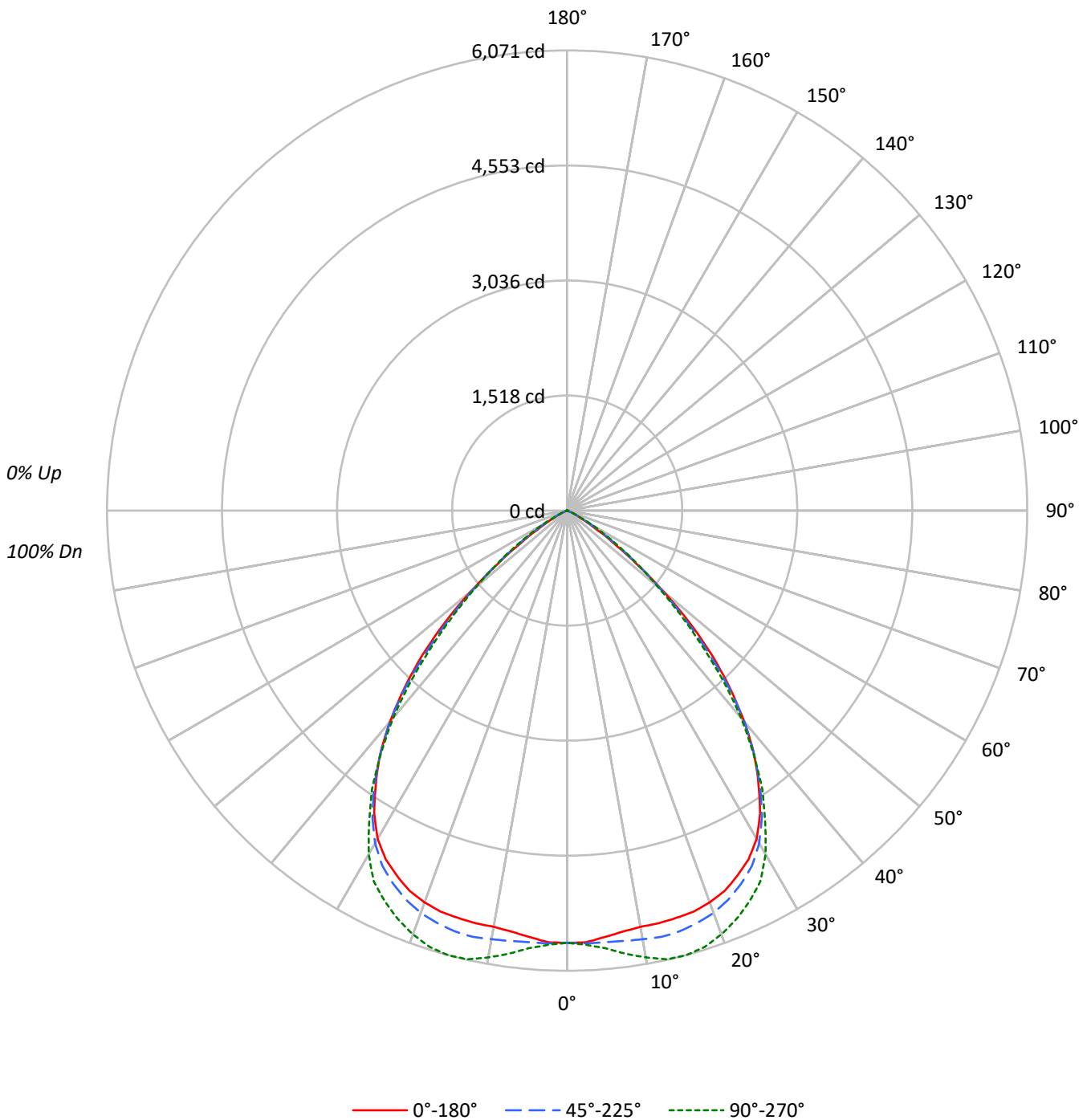
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175826	175826	175826
5°	174850	176943	179413
10°	174549	179787	187421
15°	177607	183410	193811
20°	180491	185328	195222
25°	180804	184802	193550
30°	178048	180376	186373
35°	165710	166794	168879
40°	146460	146279	143650
45°	117971	113576	109175
50°	79217	77145	74540
55°	40219	43670	46353
60°	16473	20161	23510
65°	6144	6552	7683
70°	397	397	298
75°	786	1322	1716
80°	195	0	0
85°	778	0	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.5	5.3
10°-20°	1631.8	15.8
20°-30°	2511.0	24.3
30°-40°	2750.2	26.6
40°-50°	1999.7	19.3
50°-60°	769.2	7.4
60°-70°	120.5	1.2
70°-80°	8.6	0.1
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°	4690.3	45.4
0°-40°	7440.4	71.9
0°-60°	10209.4	98.7
0°-90°	10342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5702	5702	5702	5702	5702	
5°	5649	5678	5716	5771	5796	537
15°	5563	5607	5745	5958	6071	1574
25°	5314	5346	5432	5592	5689	2444
35°	4402	4402	4431	4458	4486	2734
45°	2705	2678	2604	2538	2504	2057
55°	748	768	812	839	862	731
65°	84	88	90	102	105	103
75°	7	14	11	14	14	9
85°	2	0	0	0	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5701.9	5701.9	5701.9	5701.9	5701.9
2.5°	5700.8	5709.7	5715.2	5727.4	5733.0
5°	5648.7	5677.5	5716.3	5770.6	5796.1
7.5°	5603.3	5643.2	5726.3	5843.8	5895.9
10°	5574.5	5617.7	5741.8	5901.4	5985.6
12.5°	5577.8	5625.5	5759.6	5951.3	6064.3
15°	5563.4	5606.6	5745.2	5957.9	6071.0
17.5°	5546.8	5582.2	5705.3	5913.6	6035.5
20°	5500.2	5530.2	5647.6	5836.0	5949.1
22.5°	5430.4	5458.1	5555.6	5730.7	5834.9
25°	5314.0	5346.2	5431.5	5592.2	5688.6
27.5°	5184.4	5203.2	5281.9	5428.2	5520.2
30°	5000.4	5007.1	5065.8	5178.8	5234.2
32.5°	4737.8	4736.6	4781.0	4837.5	4858.6
35°	4402.0	4402.0	4430.8	4458.5	4486.2
37.5°	4052.9	4048.4	4051.8	4058.4	4035.1
40°	3638.4	3629.5	3633.9	3594.0	3568.6
42.5°	3184.0	3191.8	3147.4	3076.5	3049.9
45°	2705.2	2677.5	2604.4	2537.9	2503.5
47.5°	2196.5	2153.3	2083.5	2014.8	2009.3
50°	1651.3	1653.5	1608.1	1569.3	1553.8
52.5°	1145.9	1158.1	1181.4	1185.8	1191.4
55°	748.1	768.0	812.3	838.9	862.2
57.5°	457.7	494.3	532.0	581.8	586.3
60°	267.1	284.8	326.9	364.6	381.2
62.5°	150.7	167.3	176.2	198.4	203.9
65°	84.2	87.6	89.8	102.0	105.3
67.5°	51.0	53.2	55.4	54.3	56.5
70°	4.4	10.0	4.4	5.5	3.3
72.5°	18.8	12.2	13.3	10.0	6.6
75°	6.6	14.4	11.1	14.4	14.4
77.5°	4.4	3.3	5.5	6.6	5.5
80°	1.1	0.0	0.0	0.0	0.0
82.5°	10.0	8.9	5.5	8.9	3.3
85°	2.2	0.0	0.0	0.0	2.2
87.5°	6.6	3.3	3.3	7.8	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)