

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: P247656

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9000.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

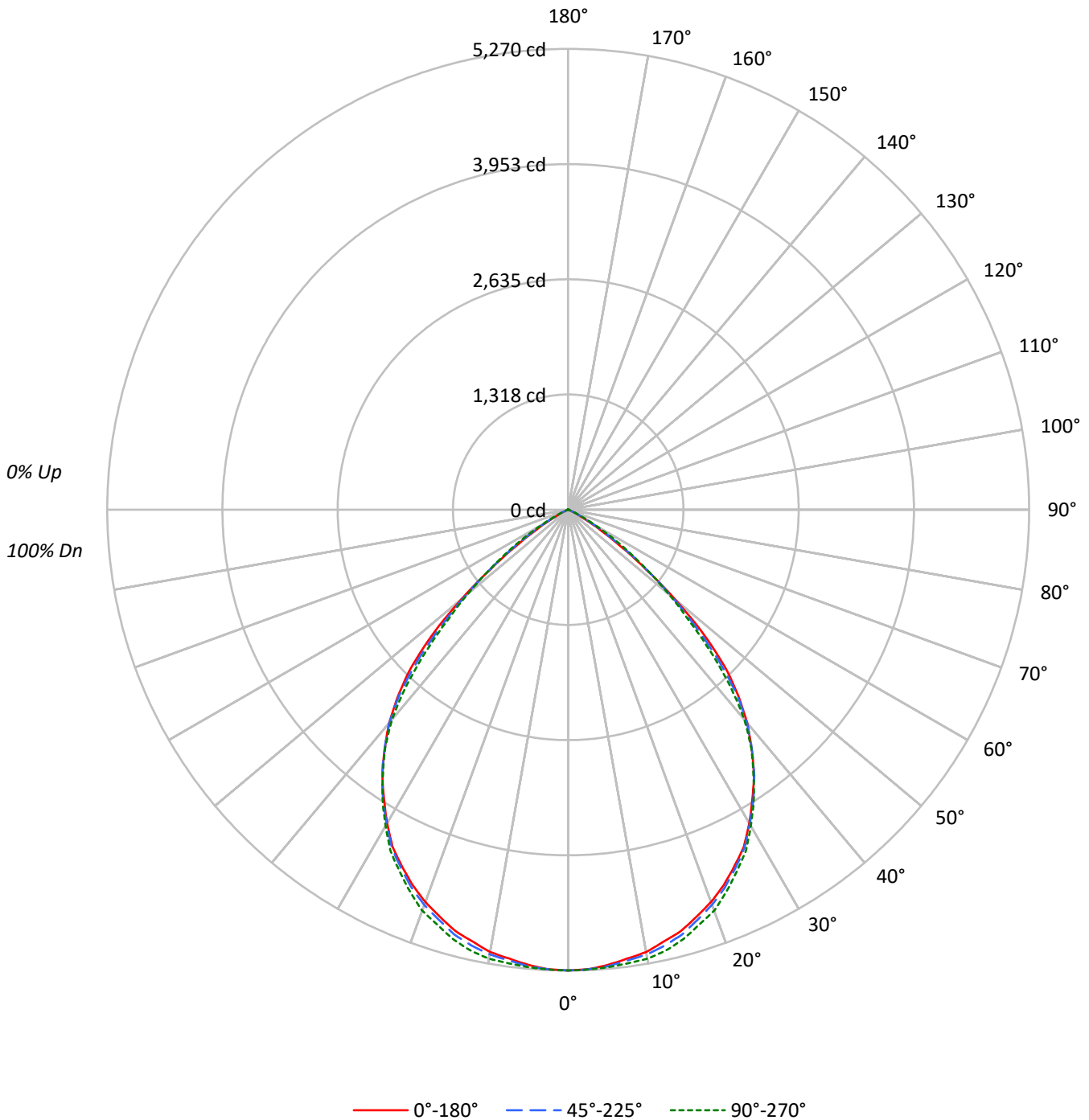
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	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°	162498	162498	162498
5°	161757	162187	162580
10°	160837	161705	163226
15°	159215	160581	162318
20°	156670	157809	160126
25°	153030	153857	155235
30°	147373	147743	148690
35°	139378	139596	139031
40°	128076	127935	126168
45°	110135	105639	100794
50°	76569	73845	71791
55°	39950	43434	45982
60°	16201	19131	22202
65°	5151	6333	6757
70°	730	415	207
75°	0	0	0
80°	1847	408	622
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.7	5.5
10°-20°	1416.2	15.7
20°-30°	2080.5	23.1
30°-40°	2303.3	25.6
40°-50°	1835.6	20.4
50°-60°	752.2	8.4
60°-70°	110.7	1.2
70°-80°	1.6	0.0
80°-90°	2.3	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°	3994.3	44.4
0°-40°	6297.6	70.0
0°-60°	8885.4	98.7
0°-90°	9000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5270	5270	5270	5270	5270	
5°	5226	5235	5240	5248	5252	496
15°	4987	4991	5030	5078	5084	1404
25°	4498	4493	4522	4549	4562	2068
35°	3702	3698	3708	3704	3693	2301
45°	2526	2502	2422	2332	2311	1895
55°	743	768	808	854	855	715
65°	71	74	87	95	93	94
75°	0	0	0	0	0	3
85°	0	0	0	5	0	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5269.7	5269.7	5269.7	5269.7	5269.7
2.5°	5260.4	5261.6	5261.6	5255.8	5262.7
5°	5225.7	5234.9	5239.6	5247.7	5252.3
7.5°	5177.1	5174.8	5199.1	5228.0	5231.5
10°	5136.6	5131.9	5164.3	5202.5	5212.9
12.5°	5056.7	5062.5	5104.2	5143.5	5164.3
15°	4987.3	4990.7	5030.1	5077.5	5084.5
17.5°	4879.6	4890.0	4916.7	4966.4	4975.7
20°	4774.3	4778.9	4809.0	4849.5	4879.6
22.5°	4645.8	4653.9	4677.1	4713.0	4728.0
25°	4497.7	4493.0	4522.0	4548.6	4562.5
27.5°	4347.2	4339.1	4361.1	4386.6	4399.3
30°	4138.9	4136.6	4149.3	4165.5	4175.9
32.5°	3920.1	3925.9	3938.6	3943.3	3946.7
35°	3702.5	3697.9	3708.3	3703.7	3693.3
37.5°	3444.4	3447.9	3447.9	3443.3	3438.6
40°	3181.7	3185.2	3178.2	3152.8	3134.3
42.5°	2873.8	2876.2	2840.3	2783.6	2745.4
45°	2525.5	2502.3	2422.4	2332.2	2311.3
47.5°	2086.8	2047.4	1964.1	1895.8	1871.5
50°	1596.1	1567.1	1539.3	1503.5	1496.5
52.5°	1119.2	1134.3	1144.7	1156.2	1152.8
55°	743.1	768.5	807.9	854.2	855.3
57.5°	446.8	475.7	525.5	576.4	600.7
60°	262.7	274.3	310.2	348.4	360.0
62.5°	142.4	145.8	162.0	200.2	194.4
65°	70.6	74.1	86.8	94.9	92.6
67.5°	34.7	38.2	40.5	52.1	42.8
70°	8.1	2.3	4.6	5.8	2.3
72.5°	0.0	0.0	2.3	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	0.0	0.0	0.0	4.6
80°	10.4	6.9	2.3	2.3	3.5
82.5°	3.5	1.2	3.5	1.2	0.0
85°	0.0	0.0	0.0	4.6	0.0
87.5°	5.8	1.2	1.2	3.5	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)