

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: P247472

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247472
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 EC8B1009727 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8444.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

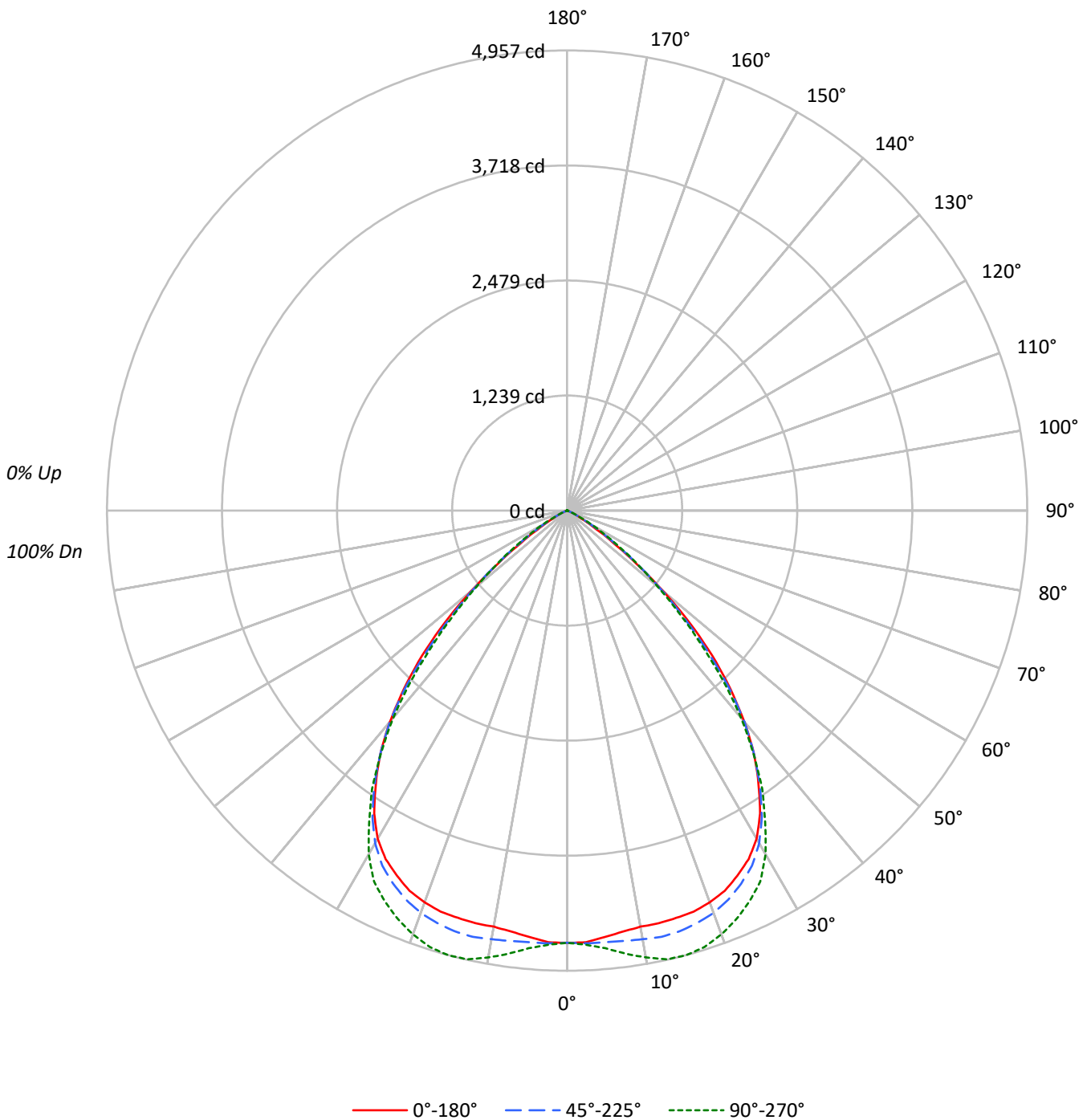
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91						
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82						
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73						
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66						
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59						
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54						
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49						
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44						
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40						
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37						

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°	447.1	5.3
10°-20°	1332.3	15.8
20°-30°	2050.1	24.3
30°-40°	2245.5	26.6
40°-50°	1632.7	19.3
50°-60°	628.1	7.4
60°-70°	98.4	1.2
70°-80°	7.1	0.1
80°-90°	2.8	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°	3829.5	45.4
0°-40°	6075.0	71.9
0°-60°	8335.7	98.7
0°-90°	8444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4656	4656	4656	4656	4656	
5°	4612	4636	4667	4712	4732	438
15°	4542	4578	4691	4864	4957	1285
25°	4339	4365	4435	4566	4645	1996
35°	3594	3594	3618	3640	3663	2232
45°	2209	2186	2126	2072	2044	1679
55°	611	627	663	685	704	597
65°	69	72	73	83	86	84
75°	5	12	9	12	12	7
85°	2	0	0	0	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4655.5	4655.5	4655.5	4655.5	4655.5
2.5°	4654.6	4661.8	4666.3	4676.3	4680.8
5°	4612.1	4635.6	4667.3	4711.6	4732.4
7.5°	4575.0	4607.5	4675.4	4771.3	4813.8
10°	4551.4	4586.7	4688.1	4818.4	4887.1
12.5°	4554.1	4593.1	4702.5	4859.1	4951.4
15°	4542.4	4577.7	4690.8	4864.5	4956.8
17.5°	4528.8	4557.8	4658.2	4828.3	4927.9
20°	4490.8	4515.2	4611.2	4765.0	4857.3
22.5°	4433.8	4456.4	4536.1	4679.0	4764.1
25°	4338.8	4365.0	4434.7	4565.9	4644.6
27.5°	4232.9	4248.3	4312.6	4432.0	4507.1
30°	4082.7	4088.1	4136.1	4228.4	4273.6
32.5°	3868.3	3867.4	3903.6	3949.7	3966.9
35°	3594.1	3594.1	3617.6	3640.2	3662.9
37.5°	3309.1	3305.4	3308.2	3313.6	3294.6
40°	2970.6	2963.4	2967.0	2934.5	2913.6
42.5°	2599.7	2606.0	2569.8	2511.9	2490.2
45°	2208.8	2186.1	2126.4	2072.1	2044.1
47.5°	1793.4	1758.1	1701.1	1645.0	1640.5
50°	1348.2	1350.0	1312.9	1281.3	1268.6
52.5°	935.6	945.6	964.6	968.2	972.7
55°	610.8	627.1	663.3	685.0	704.0
57.5°	373.7	403.6	434.3	475.1	478.7
60°	218.1	232.5	266.9	297.7	311.3
62.5°	123.1	136.6	143.9	162.0	166.5
65°	68.8	71.5	73.3	83.2	86.0
67.5°	41.6	43.4	45.2	44.3	46.1
70°	3.6	8.1	3.6	4.5	2.7
72.5°	15.4	10.0	10.9	8.1	5.4
75°	5.4	11.8	9.0	11.8	11.8
77.5°	3.6	2.7	4.5	5.4	4.5
80°	0.9	0.0	0.0	0.0	0.0
82.5°	8.1	7.2	4.5	7.2	2.7
85°	1.8	0.0	0.0	0.0	1.8
87.5°	5.4	2.7	2.7	6.3	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)