

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: P247184

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247184
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 EC8B1009727 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 7631.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

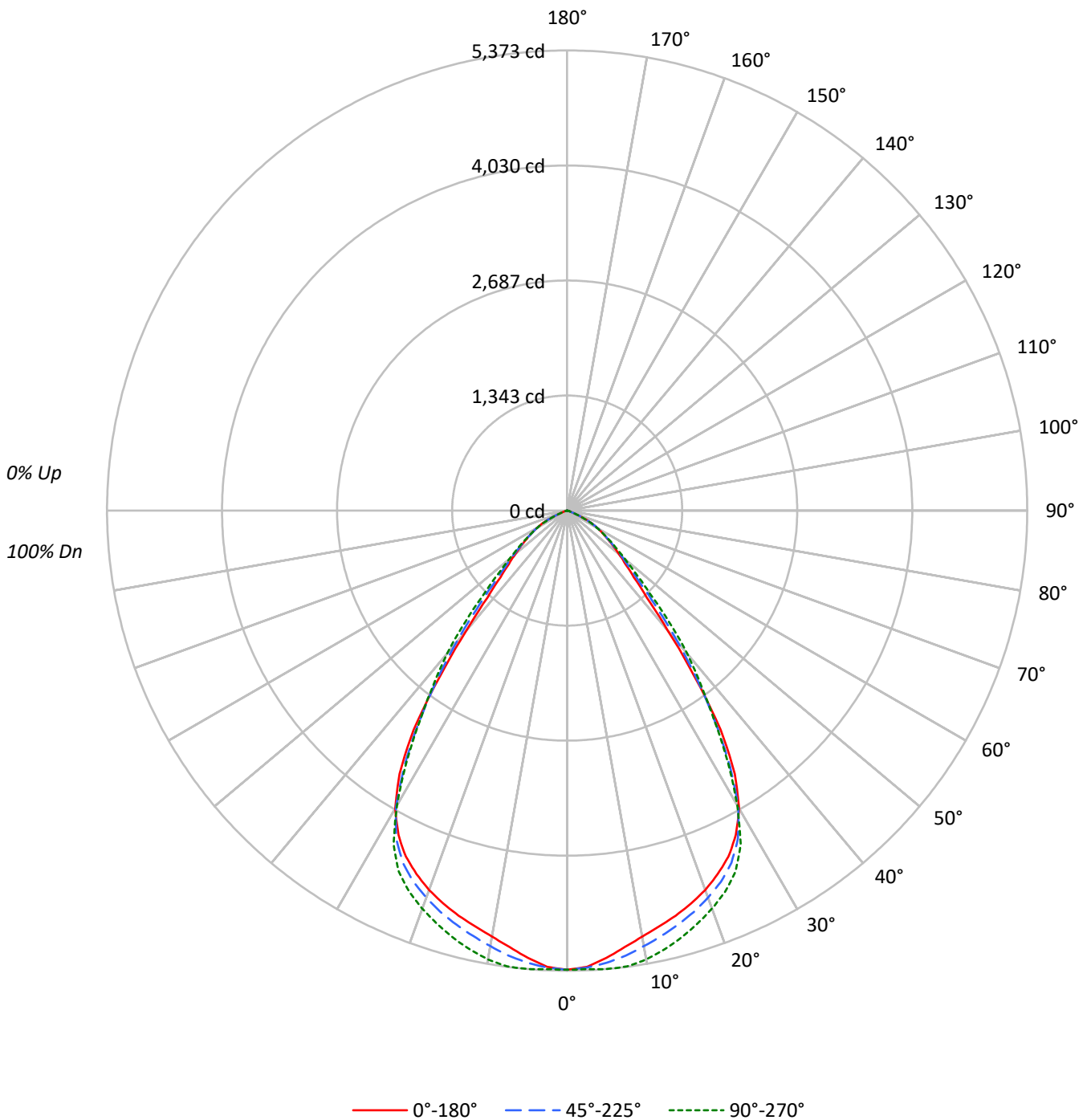
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74	74	74	74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67	67	67	67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61	61	61	61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56	56	56	56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	51	51	51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	43	43	43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40	40	40	40			

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°	502.2	6.6
10°-20°	1415.0	18.5
20°-30°	2069.4	27.1
30°-40°	1875.1	24.6
40°-50°	997.0	13.1
50°-60°	532.1	7.0
60°-70°	217.0	2.8
70°-80°	21.9	0.3
80°-90°	1.3	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°	3986.5	52.2
0°-40°	5861.6	76.8
0°-60°	7390.8	96.9
0°-90°	7631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5361	5361	5361	5361	5361	
5°	5243	5256	5300	5348	5373	494
15°	4897	4925	5005	5108	5160	1381
25°	4457	4476	4538	4616	4652	2037
35°	3124	3081	3017	2994	3000	1878
45°	1102	1135	1229	1326	1362	901
55°	575	574	584	593	603	521
65°	224	224	218	205	206	224
75°	16	16	15	14	14	23
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5361.1	5361.1	5361.1	5361.1	5361.1
2.5°	5332.2	5331.3	5341.2	5353.0	5359.3
5°	5242.6	5256.2	5299.6	5347.6	5372.9
7.5°	5141.3	5166.6	5241.7	5324.0	5368.4
10°	5049.9	5082.4	5164.8	5272.5	5321.3
12.5°	4971.1	5002.8	5086.1	5196.4	5249.8
15°	4896.9	4925.0	5004.6	5107.8	5160.3
17.5°	4811.0	4838.1	4915.0	5012.8	5058.0
20°	4714.2	4736.8	4809.2	4900.6	4946.7
22.5°	4593.8	4618.3	4691.5	4775.7	4819.1
25°	4457.2	4476.2	4537.7	4615.5	4651.7
27.5°	4267.2	4284.4	4320.6	4362.2	4389.3
30°	4015.6	4011.1	3997.5	3984.9	3973.1
32.5°	3644.7	3601.2	3535.2	3493.6	3495.4
35°	3124.4	3080.9	3016.7	2994.1	2999.5
37.5°	2441.2	2473.8	2500.0	2543.5	2564.3
40°	1829.6	1885.7	2018.7	2134.5	2182.5
42.5°	1375.3	1430.5	1569.9	1692.0	1758.1
45°	1102.1	1134.7	1228.8	1326.5	1361.8
47.5°	922.9	937.4	991.7	1054.1	1084.9
50°	789.9	799.0	827.9	862.3	882.2
52.5°	676.8	680.4	694.9	714.8	727.5
55°	574.6	573.7	584.5	592.7	602.6
57.5°	485.9	485.0	485.0	487.7	494.0
60°	409.9	407.2	407.2	403.6	405.4
62.5°	333.9	331.2	324.8	320.3	318.5
65°	224.4	223.5	218.1	205.4	206.3
67.5°	116.7	115.8	110.4	106.8	105.0
70°	62.4	60.6	57.9	55.2	53.4
72.5°	31.7	30.8	29.9	28.0	28.0
75°	16.3	16.3	15.4	14.5	14.5
77.5°	8.1	8.1	7.2	7.2	7.2
80°	4.5	4.5	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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)