

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 EC8B100927 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 EC8B100927 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: 8584.8 lumens
Efficiency: N/A
Efficacy: 80.8 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

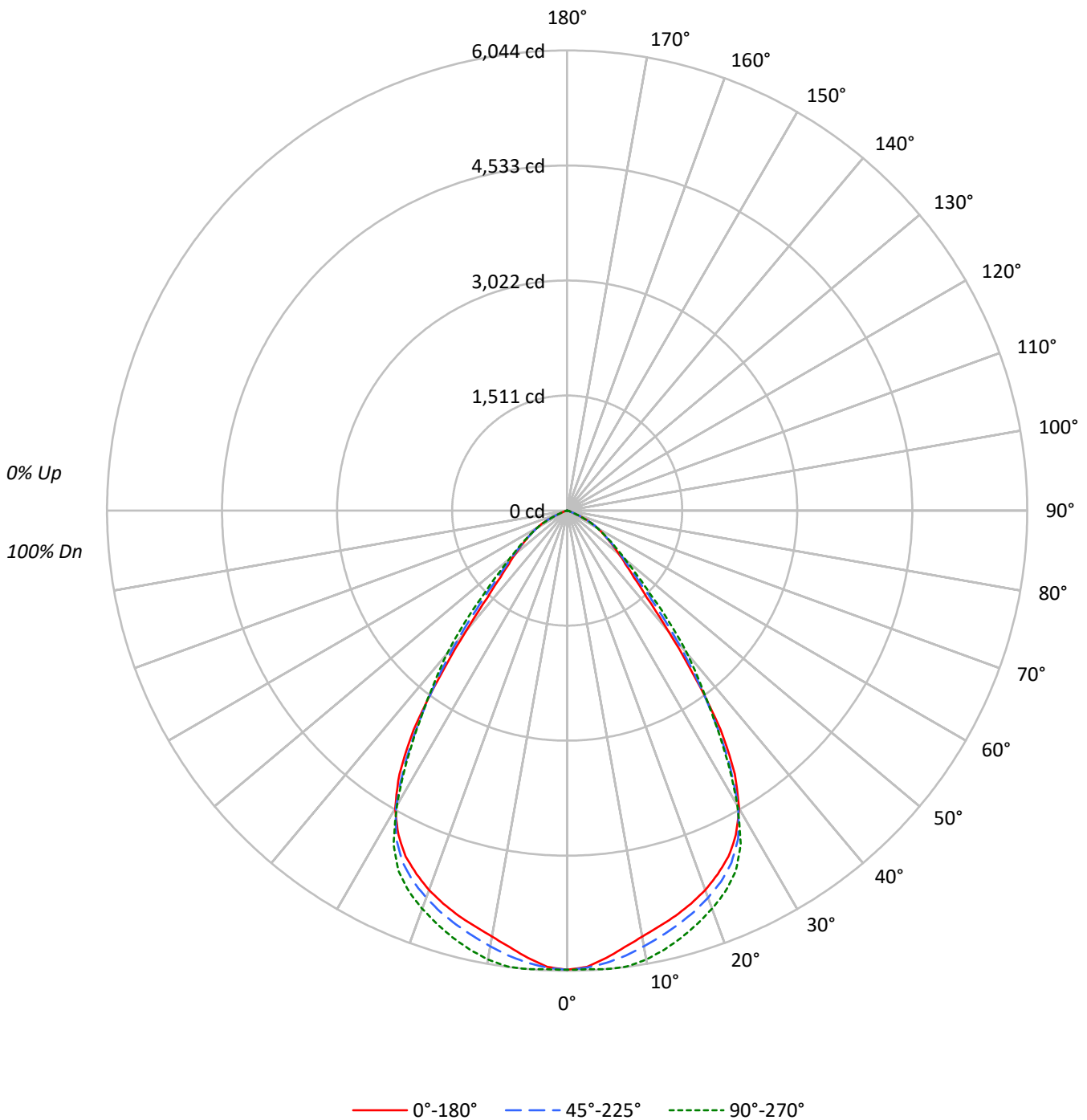
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	565.0	6.6
10°-20°	1591.8	18.5
20°-30°	2328.1	27.1
30°-40°	2109.5	24.6
40°-50°	1121.7	13.1
50°-60°	598.6	7.0
60°-70°	244.2	2.8
70°-80°	24.6	0.3
80°-90°	1.4	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°	4484.9	52.2
0°-40°	6594.3	76.8
0°-60°	8314.7	96.9
0°-90°	8584.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8584.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6031	6031	6031	6031	6031	
5°	5898	5913	5962	6016	6044	556
15°	5509	5541	5630	5746	5805	1554
25°	5014	5036	5105	5192	5233	2292
35°	3515	3466	3394	3368	3374	2112
45°	1240	1276	1382	1492	1532	1014
55°	646	645	658	667	678	586
65°	252	251	245	231	232	252
75°	18	18	17	16	16	26
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6031.2	6031.2	6031.2	6031.2	6031.2
2.5°	5998.7	5997.7	6008.8	6022.1	6029.2
5°	5897.9	5913.2	5962.0	6016.0	6044.5
7.5°	5784.0	5812.4	5896.9	5989.5	6039.4
10°	5681.1	5717.7	5810.4	5931.6	5986.5
12.5°	5592.5	5628.2	5721.9	5846.0	5906.0
15°	5509.0	5540.6	5630.2	5746.3	5805.3
17.5°	5412.4	5442.9	5529.4	5639.4	5690.2
20°	5303.5	5328.9	5410.3	5513.2	5565.0
22.5°	5168.0	5195.6	5277.9	5372.7	5421.5
25°	5014.3	5035.7	5104.9	5192.4	5233.2
27.5°	4800.6	4820.0	4860.7	4907.5	4938.0
30°	4517.6	4512.5	4497.2	4483.0	4469.7
32.5°	4100.3	4051.4	3977.1	3930.3	3932.3
35°	3515.0	3466.0	3393.8	3368.4	3374.4
37.5°	2746.4	2783.0	2812.5	2861.4	2884.8
40°	2058.3	2121.4	2271.0	2401.3	2455.3
42.5°	1547.2	1609.3	1766.1	1903.5	1977.9
45°	1239.9	1276.5	1382.4	1492.3	1532.0
47.5°	1038.3	1054.6	1115.7	1185.9	1220.5
50°	888.6	898.9	931.4	970.1	992.5
52.5°	761.4	765.4	781.8	804.2	818.4
55°	646.4	645.4	657.6	666.8	677.9
57.5°	546.6	545.6	545.6	548.7	555.8
60°	461.1	458.1	458.1	454.0	456.1
62.5°	375.6	372.6	365.4	360.3	358.3
65°	252.4	251.4	245.4	231.1	232.1
67.5°	131.3	130.3	124.2	120.2	118.1
70°	70.2	68.2	65.1	62.1	60.1
72.5°	35.7	34.6	33.6	31.5	31.5
75°	18.3	18.3	17.3	16.3	16.3
77.5°	9.1	9.1	8.1	8.1	8.1
80°	5.1	5.1	4.0	4.0	4.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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)