

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: P247182

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247182
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: LSR8B80D010 EC8B80927 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: 6606.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

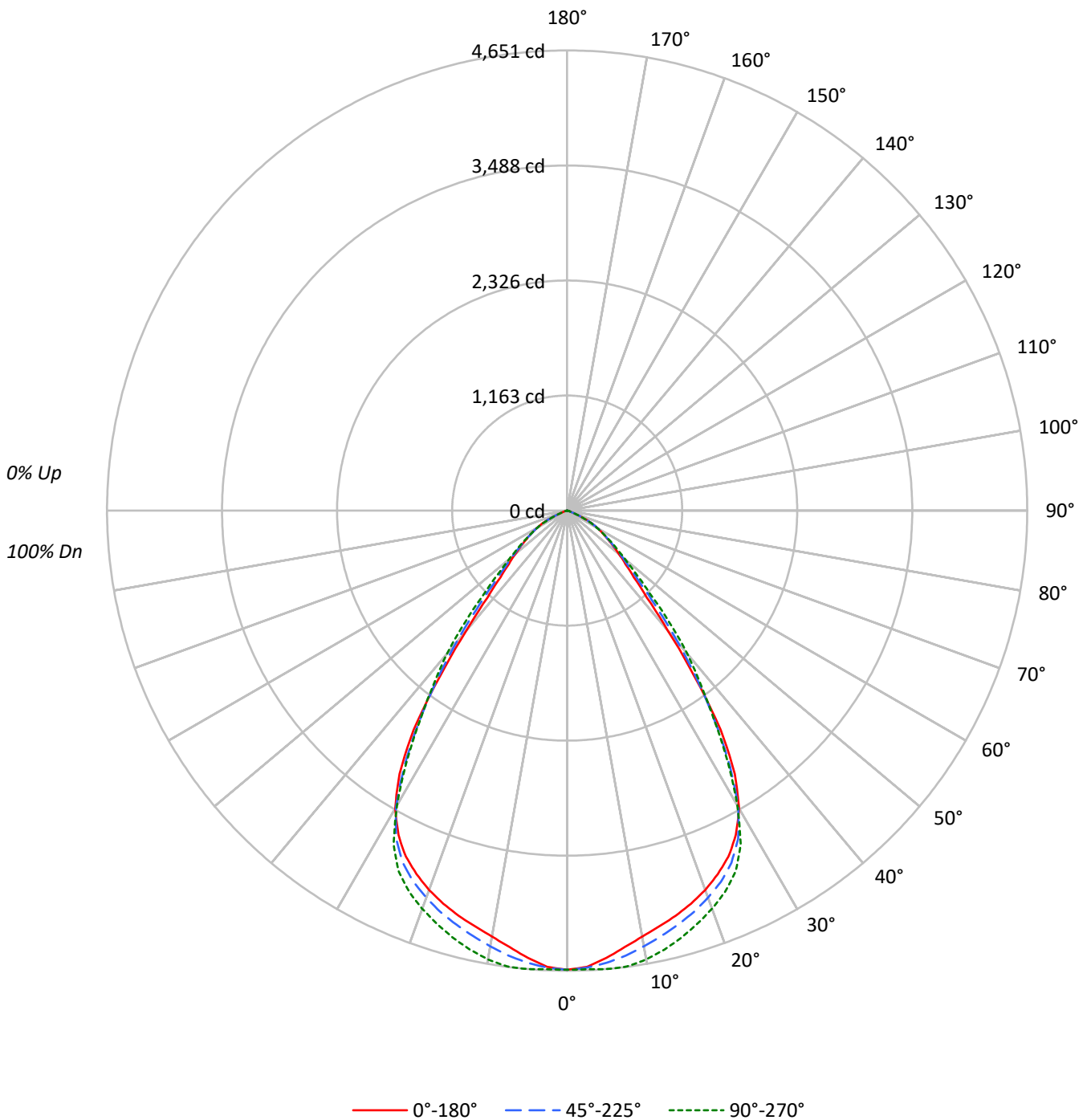
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	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°	434.7	6.6
10°-20°	1224.9	18.5
20°-30°	1791.4	27.1
30°-40°	1623.2	24.6
40°-50°	863.1	13.1
50°-60°	460.6	7.0
60°-70°	187.9	2.8
70°-80°	19.0	0.3
80°-90°	1.1	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°	3451.1	52.2
0°-40°	5074.3	76.8
0°-60°	6398.1	96.9
0°-90°	6606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4641	4641	4641	4641	4641	
5°	4538	4550	4588	4629	4651	428
15°	4239	4263	4332	4422	4467	1196
25°	3858	3875	3928	3996	4027	1763
35°	2705	2667	2612	2592	2597	1625
45°	954	982	1064	1148	1179	780
55°	497	497	506	513	522	451
65°	194	194	189	178	178	194
75°	14	14	13	12	12	20
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°	4641.0	4641.0	4641.0	4641.0	4641.0
2.5°	4616.0	4615.2	4623.8	4634.0	4639.5
5°	4538.4	4550.2	4587.8	4629.3	4651.2
7.5°	4450.7	4472.7	4537.6	4608.9	4647.3
10°	4371.5	4399.8	4471.1	4564.2	4606.5
12.5°	4303.5	4330.8	4402.9	4498.4	4544.7
15°	4239.2	4263.4	4332.4	4421.7	4467.2
17.5°	4164.8	4188.3	4254.9	4339.5	4378.6
20°	4080.9	4100.5	4163.2	4242.3	4282.3
22.5°	3976.8	3997.9	4061.4	4134.3	4171.8
25°	3858.5	3875.0	3928.2	3995.6	4026.9
27.5°	3694.0	3708.9	3740.2	3776.3	3799.8
30°	3476.2	3472.3	3460.6	3449.6	3439.5
32.5°	3155.1	3117.5	3060.3	3024.3	3025.9
35°	2704.7	2667.2	2611.5	2591.9	2596.6
37.5°	2113.3	2141.5	2164.3	2201.8	2219.8
40°	1583.8	1632.4	1747.6	1847.8	1889.3
42.5°	1190.6	1238.4	1359.0	1464.8	1521.9
45°	954.0	982.2	1063.7	1148.3	1178.9
47.5°	799.0	811.5	858.5	912.5	939.2
50°	683.8	691.6	716.7	746.4	763.8
52.5°	585.9	589.1	601.5	618.8	629.8
55°	497.4	496.6	506.0	513.1	521.7
57.5°	420.6	419.8	419.8	422.2	427.7
60°	354.8	352.5	352.5	349.3	350.9
62.5°	289.0	286.7	281.2	277.3	275.7
65°	194.3	193.5	188.8	177.9	178.5
67.5°	101.0	100.2	95.5	92.5	90.9
70°	54.0	52.4	50.2	47.8	46.2
72.5°	27.4	26.7	25.9	24.3	24.3
75°	14.1	14.1	13.3	12.5	12.5
77.5°	7.1	7.1	6.3	6.3	6.3
80°	3.9	3.9	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8
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)