

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: P247186

Luminaire Tested: **LSR8B80D010 EC8B809730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247186
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 EC8B809730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6213.0 lumens
Efficiency: N/A
Efficacy: 83.5 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

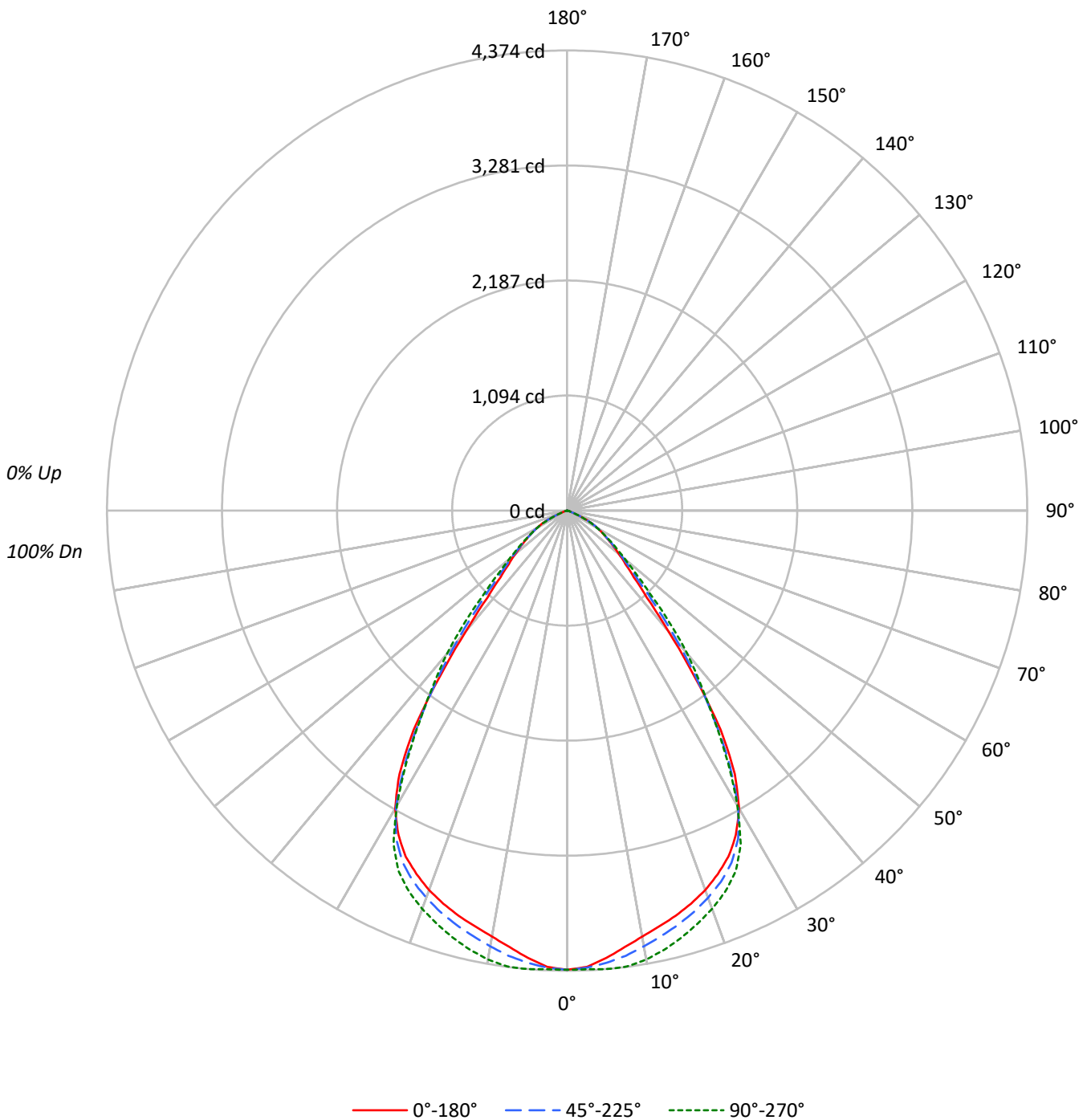
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	408.9	6.6
10°-20°	1152.0	18.5
20°-30°	1684.9	27.1
30°-40°	1526.7	24.6
40°-50°	811.8	13.1
50°-60°	433.2	7.0
60°-70°	176.7	2.8
70°-80°	17.8	0.3
80°-90°	1.0	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°	3245.7	52.2
0°-40°	4772.4	76.8
0°-60°	6017.4	96.9
0°-90°	6213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4365	4365	4365	4365	4365	
5°	4268	4280	4315	4354	4374	402
15°	3987	4010	4075	4159	4201	1125
25°	3629	3644	3694	3758	3787	1659
35°	2544	2508	2456	2438	2442	1529
45°	897	924	1000	1080	1109	734
55°	468	467	476	482	491	424
65°	183	182	178	167	168	182
75°	13	13	12	12	12	19
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°	4364.9	4364.9	4364.9	4364.9	4364.9
2.5°	4341.3	4340.6	4348.7	4358.3	4363.4
5°	4268.4	4279.5	4314.8	4353.9	4374.5
7.5°	4185.9	4206.5	4267.7	4334.7	4370.8
10°	4111.5	4138.0	4205.1	4292.7	4332.5
12.5°	4047.4	4073.2	4141.0	4230.8	4274.3
15°	3987.0	4009.8	4074.7	4158.6	4201.4
17.5°	3917.0	3939.1	4001.7	4081.3	4118.1
20°	3838.2	3856.6	3915.5	3989.9	4027.5
22.5°	3740.2	3760.1	3819.8	3888.3	3923.6
25°	3629.0	3644.4	3694.5	3757.9	3787.3
27.5°	3474.3	3488.2	3517.7	3551.6	3573.7
30°	3269.5	3265.8	3254.7	3244.4	3234.8
32.5°	2967.4	2932.0	2878.3	2844.4	2845.9
35°	2543.8	2508.4	2456.1	2437.7	2442.1
37.5°	1987.6	2014.1	2035.5	2070.8	2087.8
40°	1489.6	1535.3	1643.6	1737.9	1776.9
42.5°	1119.8	1164.7	1278.2	1377.6	1431.4
45°	897.3	923.8	1000.4	1080.0	1108.7
47.5°	751.4	763.2	807.4	858.2	883.3
50°	643.1	650.5	674.1	702.1	718.3
52.5°	551.0	554.0	565.8	582.0	592.3
55°	467.8	467.1	475.9	482.5	490.6
57.5°	395.6	394.9	394.9	397.1	402.2
60°	333.7	331.5	331.5	328.6	330.0
62.5°	271.8	269.6	264.5	260.8	259.3
65°	182.7	182.0	177.5	167.2	168.0
67.5°	95.0	94.3	89.9	86.9	85.5
70°	50.8	49.4	47.1	44.9	43.5
72.5°	25.8	25.0	24.3	22.8	22.8
75°	13.3	13.3	12.5	11.8	11.8
77.5°	6.6	6.6	5.9	5.9	5.9
80°	3.7	3.7	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7
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)