

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: P247570

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBSOGPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6902.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

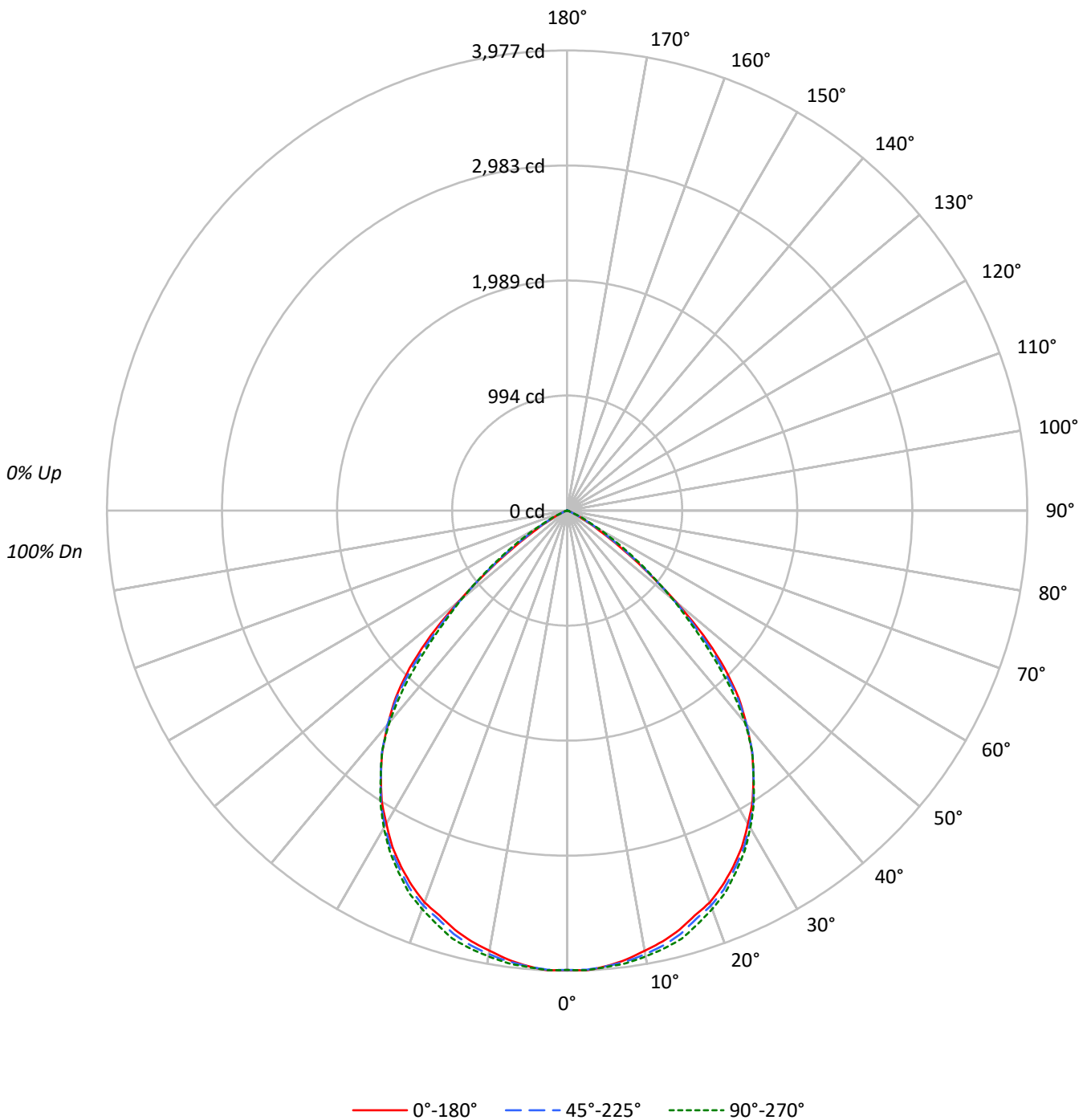
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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°	375.6	5.4
10°-20°	1066.6	15.5
20°-30°	1573.0	22.8
30°-40°	1750.9	25.4
40°-50°	1409.1	20.4
50°-60°	599.2	8.7
60°-70°	112.3	1.6
70°-80°	13.6	0.2
80°-90°	1.7	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°	3015.2	43.7
0°-40°	4766.1	69.1
0°-60°	6774.3	98.2
0°-90°	6902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3971	3971	3971	3971	3971	
5°	3951	3952	3952	3959	3958	374
15°	3750	3771	3789	3818	3830	1057
25°	3396	3408	3421	3440	3449	1561
35°	2805	2806	2808	2809	2809	1747
45°	1925	1909	1857	1801	1775	1447
55°	595	608	644	670	686	566
65°	74	83	93	100	112	96
75°	7	9	14	13	12	12
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3970.6	3970.6	3970.6	3970.6	3970.6
2.5°	3977.2	3979.7	3971.4	3973.0	3975.5
5°	3950.7	3951.5	3952.4	3959.0	3958.1
7.5°	3913.6	3919.4	3929.3	3941.7	3945.0
10°	3863.2	3878.1	3892.9	3907.8	3912.7
12.5°	3813.6	3822.7	3849.2	3864.1	3876.4
15°	3750.1	3770.7	3788.9	3817.8	3830.2
17.5°	3669.1	3684.1	3701.3	3730.2	3747.6
20°	3603.9	3608.1	3632.8	3658.4	3664.2
22.5°	3507.3	3516.4	3542.0	3559.3	3574.2
25°	3395.8	3408.2	3420.6	3440.3	3448.6
27.5°	3273.5	3281.1	3298.3	3312.4	3319.8
30°	3125.8	3142.3	3149.7	3156.3	3166.3
32.5°	2982.1	2987.0	2993.6	2997.8	3002.7
35°	2805.3	2806.2	2807.8	2808.7	2808.7
37.5°	2624.5	2630.2	2628.6	2623.7	2626.2
40°	2410.6	2420.5	2414.7	2399.8	2390.0
42.5°	2195.0	2190.1	2170.3	2125.6	2105.0
45°	1925.0	1909.3	1857.3	1801.1	1774.7
47.5°	1601.2	1566.6	1522.9	1479.0	1461.7
50°	1227.2	1222.2	1202.4	1185.0	1186.7
52.5°	879.5	891.9	896.0	912.5	920.8
55°	594.6	607.8	644.1	669.8	686.3
57.5°	361.7	387.3	426.1	468.2	489.8
60°	228.8	243.6	279.1	306.4	316.3
62.5°	142.8	143.7	161.1	182.5	191.6
65°	74.3	82.6	93.3	99.9	111.5
67.5°	46.3	46.3	45.4	55.4	62.0
70°	30.6	26.5	27.2	33.1	35.5
72.5°	10.8	18.2	16.5	16.5	11.5
75°	7.4	9.1	14.0	13.2	12.4
77.5°	9.9	9.1	6.6	5.8	11.5
80°	4.1	3.3	0.8	4.9	4.9
82.5°	4.1	1.7	4.9	6.6	4.1
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)