

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: P247522

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6268.6 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

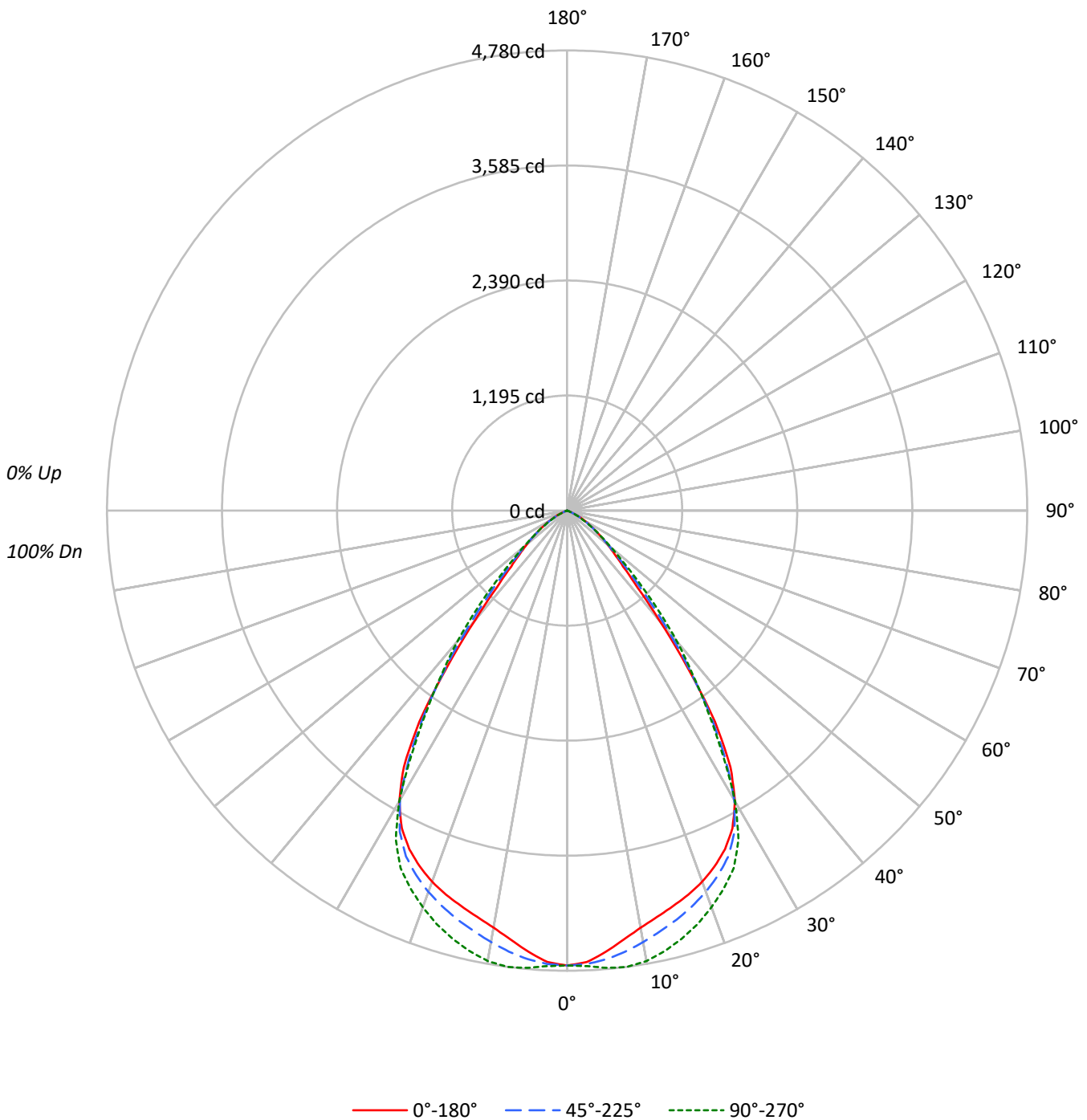
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42	42			

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°	443.1	7.1
10°-20°	1244.3	19.8
20°-30°	1808.5	28.9
30°-40°	1599.3	25.5
40°-50°	760.8	12.1
50°-60°	316.9	5.1
60°-70°	88.5	1.4
70°-80°	6.7	0.1
80°-90°	0.5	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°	3495.9	55.8
0°-40°	5095.2	81.3
0°-60°	6172.9	98.5
0°-90°	6268.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6268.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4726	4726	4726	4726	4726	
5°	4601	4624	4679	4741	4768	433
15°	4253	4291	4398	4532	4602	1201
25°	3880	3898	3963	4050	4096	1773
35°	2679	2641	2589	2549	2549	1603
45°	822	850	925	1011	1050	684
55°	352	348	339	339	347	320
65°	88	87	82	78	78	96
75°	6	5	4	4	4	8
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4725.8	4725.8	4725.8	4725.8	4725.8
2.5°	4694.4	4698.6	4714.1	4729.1	4735.7
5°	4601.0	4624.2	4678.7	4740.6	4767.8
7.5°	4494.5	4529.2	4620.9	4729.8	4780.3
10°	4397.9	4441.7	4551.5	4686.1	4749.7
12.5°	4322.0	4362.4	4474.7	4615.2	4686.9
15°	4252.6	4291.4	4397.9	4531.8	4601.9
17.5°	4183.2	4220.3	4312.0	4436.7	4504.4
20°	4102.3	4132.0	4214.6	4324.5	4383.9
22.5°	4001.5	4028.9	4098.2	4195.7	4249.3
25°	3880.2	3897.5	3962.7	4050.3	4095.7
27.5°	3719.1	3723.3	3763.0	3819.9	3853.8
30°	3485.5	3483.1	3472.3	3469.8	3488.8
32.5°	3158.5	3122.1	3059.4	3029.6	3006.5
35°	2678.7	2640.7	2588.7	2549.0	2549.0
37.5°	2047.8	2080.9	2101.5	2126.3	2138.6
40°	1487.1	1535.9	1639.1	1746.4	1775.3
42.5°	1080.9	1126.3	1237.8	1357.5	1392.2
45°	821.6	850.5	924.8	1010.7	1050.4
47.5°	663.9	672.2	709.4	760.5	779.5
50°	544.1	546.6	558.3	584.6	599.5
52.5°	440.1	438.4	441.8	449.2	455.8
55°	351.8	347.6	339.3	339.3	346.8
57.5°	271.6	265.9	256.8	252.7	250.2
60°	208.1	202.3	192.4	185.7	185.0
62.5°	149.4	144.5	134.6	128.8	127.1
65°	88.3	86.7	81.7	78.5	77.6
67.5°	41.3	39.7	35.5	33.9	33.1
70°	19.8	18.9	17.4	16.5	15.7
72.5°	9.9	9.9	8.3	8.3	8.3
75°	5.8	4.9	4.1	4.1	4.1
77.5°	3.3	2.5	2.5	2.5	2.5
80°	1.7	1.7	1.7	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.0	0.0	0.0
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)