

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: P247618

Luminaire Tested: **LSR8B80D010 EC8B80930 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80930 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566.9 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

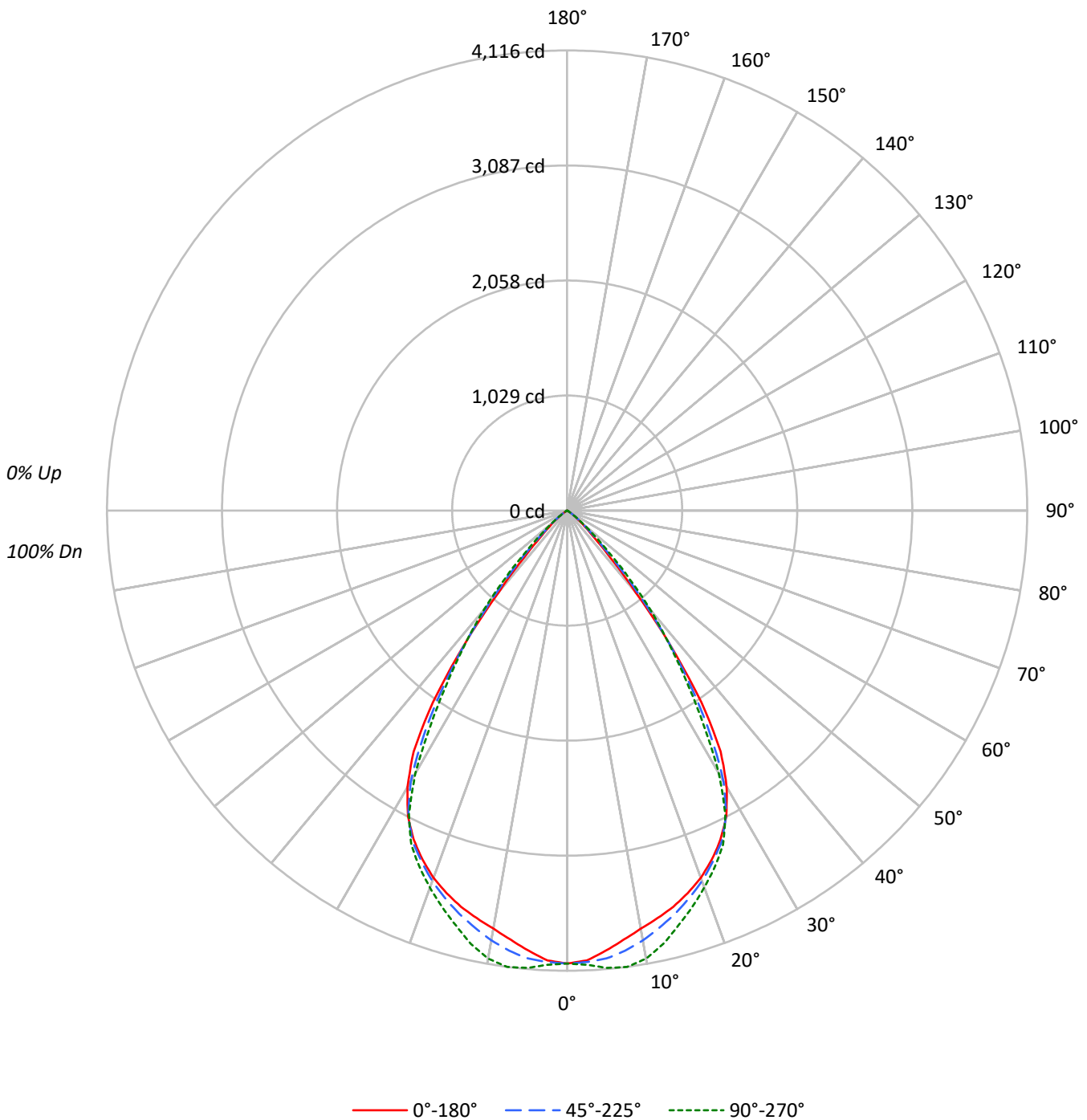
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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°	380.8	8.3
10°-20°	1053.7	23.1
20°-30°	1484.8	32.5
30°-40°	1201.2	26.3
40°-50°	381.3	8.3
50°-60°	60.9	1.3
60°-70°	4.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2919.3	63.9
0°-40°	4120.5	90.2
0°-60°	4562.8	99.9
0°-90°	4566.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4566.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4051	4051	4051	4051	4051	
5°	3952	3971	4022	4081	4106	372
15°	3668	3682	3733	3804	3843	1033
25°	3246	3252	3270	3288	3298	1482
35°	2092	2035	1949	1879	1852	1240
45°	339	367	437	499	529	316
55°	54	54	58	60	59	56
65°	2	2	2	2	2	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4050.8	4050.8	4050.8	4050.8	4050.8
2.5°	4027.6	4031.8	4041.8	4060.7	4066.5
5°	3952.5	3970.7	4021.9	4080.6	4106.1
7.5°	3871.6	3895.6	3970.7	4069.8	4116.1
10°	3797.3	3822.8	3903.0	4008.7	4069.0
12.5°	3734.5	3754.3	3819.6	3914.5	3970.7
15°	3667.6	3681.6	3732.8	3803.9	3842.7
17.5°	3587.5	3599.9	3633.7	3689.1	3718.8
20°	3495.1	3498.3	3527.2	3562.8	3588.3
22.5°	3380.3	3383.5	3400.0	3433.8	3451.2
25°	3246.4	3252.2	3269.5	3287.7	3298.4
27.5°	3082.1	3084.5	3076.2	3061.5	3064.7
30°	2854.2	2845.1	2798.8	2735.2	2716.2
32.5°	2555.2	2494.9	2395.0	2305.8	2269.5
35°	2091.9	2035.0	1949.0	1878.8	1851.6
37.5°	1503.0	1507.2	1501.4	1485.7	1489.0
40°	950.6	988.5	1078.5	1137.1	1155.4
42.5°	570.7	612.0	711.1	790.3	816.0
45°	339.4	366.7	436.9	498.8	529.3
47.5°	218.0	231.3	265.9	302.2	319.6
50°	144.5	151.1	165.1	181.7	189.1
52.5°	92.5	94.9	101.6	107.4	113.1
55°	53.7	54.5	57.8	60.3	59.4
57.5°	28.0	28.0	28.0	28.0	28.0
60°	15.7	14.9	14.9	14.9	14.0
62.5°	7.4	7.4	7.4	6.6	6.6
65°	1.7	2.5	2.5	2.5	2.5
67.5°	0.0	0.0	0.0	0.0	0.8
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	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)