

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: P250729

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8297.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

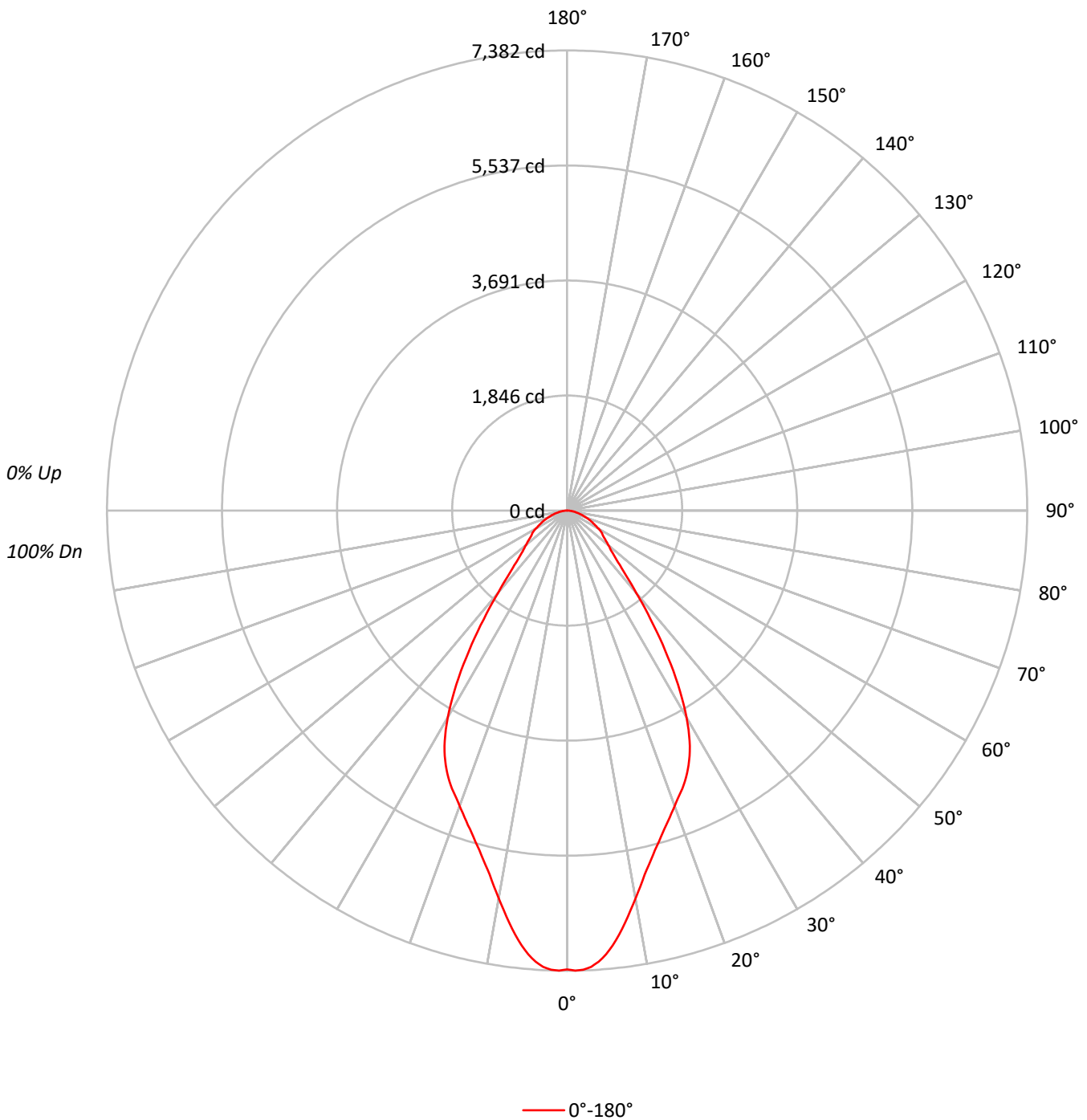
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250729

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250729

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0MW

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	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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	226952
5°	221204
10°	197757
15°	177712
20°	165501
25°	155915
30°	136327
35°	103284
40°	69378
45°	48886
50°	41458
55°	37816
60°	35826
65°	32229
70°	28995
75°	26021
80°	23014
85°	22078



TEST NUMBER: P250729

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.1	7.9
10°-20°	1569.9	18.9
20°-30°	2080.4	25.1
30°-40°	1705.9	20.6
40°-50°	908.6	11.0
50°-60°	639.5	7.7
60°-70°	441.0	5.3
70°-80°	229.6	2.8
80°-90°	67.9	0.8
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°	4304.4	51.9
0°-40°	6010.3	72.4
0°-60°	7558.4	91.1
0°-90°	8297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8297.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7360	
5°	7146	654
15°	5567	1570
25°	4582	2080
35°	2744	1706
45°	1121	909
55°	703	640
65°	442	441
75°	218	230
85°	62	68
90°	0	



TEST NUMBER: P250729

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	7359.9
1°	7381.5
2°	7371.8
3°	7328.6
4°	7254.3
5°	7146.2
6°	7011.8
7°	6851.0
8°	6678.1
9°	6493.3
10°	6315.7
11°	6145.2
12°	5972.4
13°	5828.3
14°	5691.5
15°	5566.7
16°	5449.1
17°	5341.1
18°	5240.2
19°	5139.4
20°	5043.4
21°	4949.8
22°	4868.2
23°	4784.1
24°	4685.7
25°	4582.5
26°	4464.9
27°	4332.9
28°	4184.0
29°	4018.4
30°	3828.7
31°	3629.5
32°	3420.7
33°	3197.4
34°	2974.2
35°	2743.7
37.5°	2198.8
40°	1723.5
42.5°	1361.1
45°	1121.0
47.5°	962.6
50°	864.2
52.5°	777.8
55°	703.4
57.5°	657.7



TEST NUMBER: P250729

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	580.9
62.5°	506.5
65°	441.7
67.5°	384.1
70°	321.6
72.5°	268.8
75°	218.4
77.5°	158.4
80°	129.6
82.5°	93.6
85°	62.4
87.5°	28.8
90°	0.0

(END OF REPORT)