

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: P250561

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5301.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

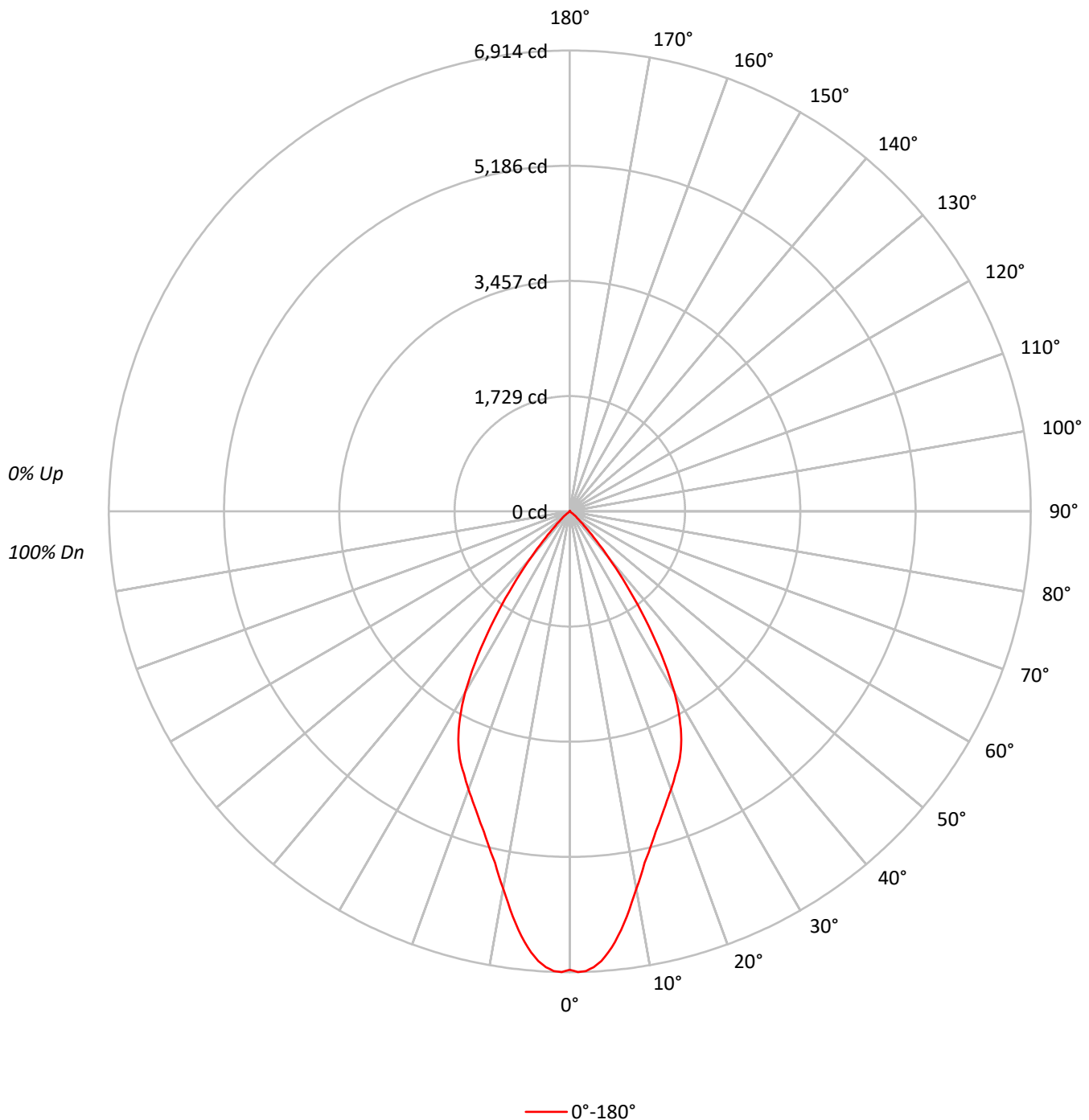
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250561

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0B

Luminous Intensity Polar Plot



TEST NUMBER: P250561

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0B

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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212098
5°	205613
10°	180075
15°	158982
20°	145680
25°	134140
30°	111648
35°	74155
40°	36092
45°	13070
50°	3934
55°	274
60°	0
65°	190
70°	0
75°	0
80°	462
85°	0



TEST NUMBER: P250561

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	11.4
10°-20°	1403.0	26.5
20°-30°	1780.0	33.6
30°-40°	1219.4	23.0
40°-50°	277.9	5.2
50°-60°	13.9	0.3
60°-70°	0.6	0.0
70°-80°	1.0	0.0
80°-90°	1.1	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°	3787.1	71.4
0°-40°	5006.5	94.4
0°-60°	5298.3	99.9
0°-90°	5301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5301.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6878	
5°	6642	604
15°	4980	1403
25°	3942	1780
35°	1970	1219
45°	300	278
55°	5	14
65°	3	1
75°	0	1
85°	0	1
90°	0	



TEST NUMBER: P250561

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	6878.2
1°	6914.1
2°	6901.2
3°	6850.0
4°	6762.9
5°	6642.5
6°	6496.5
7°	6327.5
8°	6140.4
9°	5940.6
10°	5751.0
11°	5576.8
12°	5389.9
13°	5254.1
14°	5110.6
15°	4980.0
16°	4862.2
17°	4746.8
18°	4639.3
19°	4534.2
20°	4439.4
21°	4342.1
22°	4242.2
23°	4155.1
24°	4057.8
25°	3942.5
26°	3814.4
27°	3665.8
28°	3507.0
29°	3330.2
30°	3135.6
31°	2915.2
32°	2687.3
33°	2449.0
34°	2205.6
35°	1969.9
37.5°	1391.0
40°	896.6
42.5°	527.7
45°	299.7
47.5°	161.4
50°	82.0
52.5°	15.4
55°	5.1
57.5°	2.6



TEST NUMBER: P250561

CATALOG NUMBER: LSR8B80D010 EC8B80840 8LBM0B

CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	2.6
67.5°	0.0
70°	0.0
72.5°	2.6
75°	0.0
77.5°	0.0
80°	2.6
82.5°	0.0
85°	0.0
87.5°	2.6
90°	0.0

(END OF REPORT)