

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: P250540

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250540
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 EC8B80827 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5006.0 lumens
Efficiency: N/A
Efficacy: 67.3 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

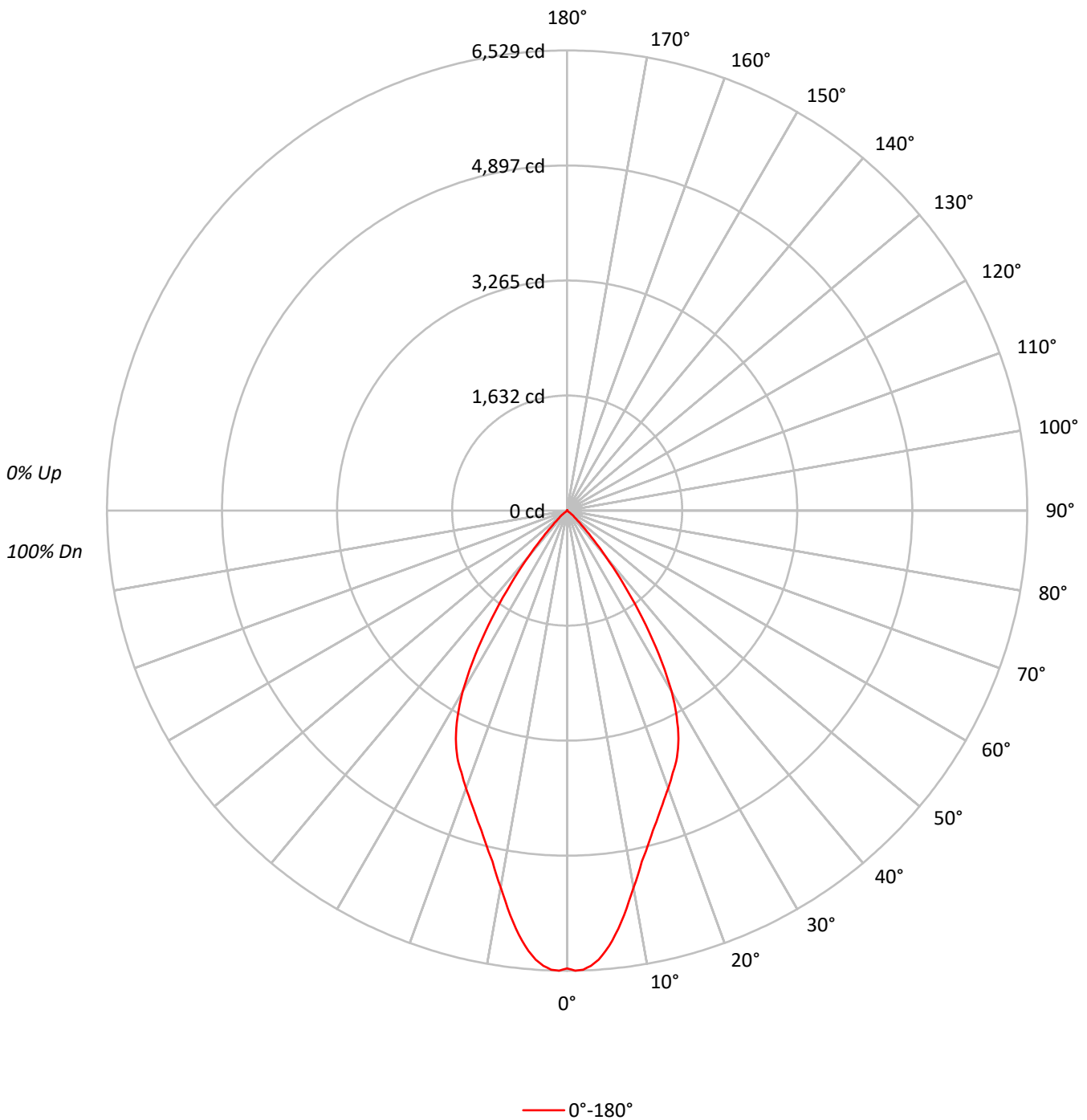
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250540

CATALOG NUMBER: LSR8B80D010 EC8B80827 8LBM0B

Luminous Intensity Polar Plot





TEST NUMBER: P250540

CATALOG NUMBER: LSR8B80D010 EC8B80827 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°	200297
5°	194172
10°	170056
15°	150136
20°	137575
25°	126675
30°	105435
35°	70029
40°	34083
45°	12346
50°	3713
55°	263
60°	0
65°	175
70°	0
75°	0
80°	426
85°	0



TEST NUMBER: P250540

CATALOG NUMBER: LSR8B80D010 EC8B80827 8LBM0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.5	11.4
10°-20°	1325.0	26.5
20°-30°	1680.9	33.6
30°-40°	1151.5	23.0
40°-50°	262.4	5.2
50°-60°	13.1	0.3
60°-70°	0.6	0.0
70°-80°	0.9	0.0
80°-90°	1.0	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°	3576.4	71.4
0°-40°	4727.9	94.4
0°-60°	5003.4	99.9
0°-90°	5006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5006.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6496	
5°	6273	571
15°	4703	1325
25°	3723	1681
35°	1860	1152
45°	283	262
55°	5	13
65°	2	1
75°	0	1
85°	0	1
90°	0	



TEST NUMBER: P250540

CATALOG NUMBER: LSR8B80D010 EC8B80827 8LBM0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	6495.5
1°	6529.3
2°	6517.2
3°	6468.8
4°	6386.5
5°	6272.9
6°	6135.0
7°	5975.3
8°	5798.7
9°	5610.0
10°	5431.0
11°	5266.5
12°	5089.9
13°	4961.7
14°	4826.2
15°	4702.9
16°	4591.6
17°	4482.7
18°	4381.1
19°	4281.9
20°	4192.4
21°	4100.5
22°	4006.1
23°	3923.9
24°	3832.0
25°	3723.1
26°	3602.1
27°	3461.8
28°	3311.8
29°	3144.9
30°	2961.1
31°	2753.0
32°	2537.7
33°	2312.7
34°	2082.9
35°	1860.3
37.5°	1313.6
40°	846.7
42.5°	498.3
45°	283.1
47.5°	152.4
50°	77.4
52.5°	14.5
55°	4.9
57.5°	2.4



TEST NUMBER: P250540

CATALOG NUMBER: LSR8B80D010 EC8B80827 8LBM0B

CANDELA DISTRIBUTION (continued):

	0°
60°	0.0
62.5°	0.0
65°	2.4
67.5°	0.0
70°	0.0
72.5°	2.4
75°	0.0
77.5°	0.0
80°	2.4
82.5°	0.0
85°	0.0
87.5°	2.4
90°	0.0

(END OF REPORT)