

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: P249966

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80835 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7374.0 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

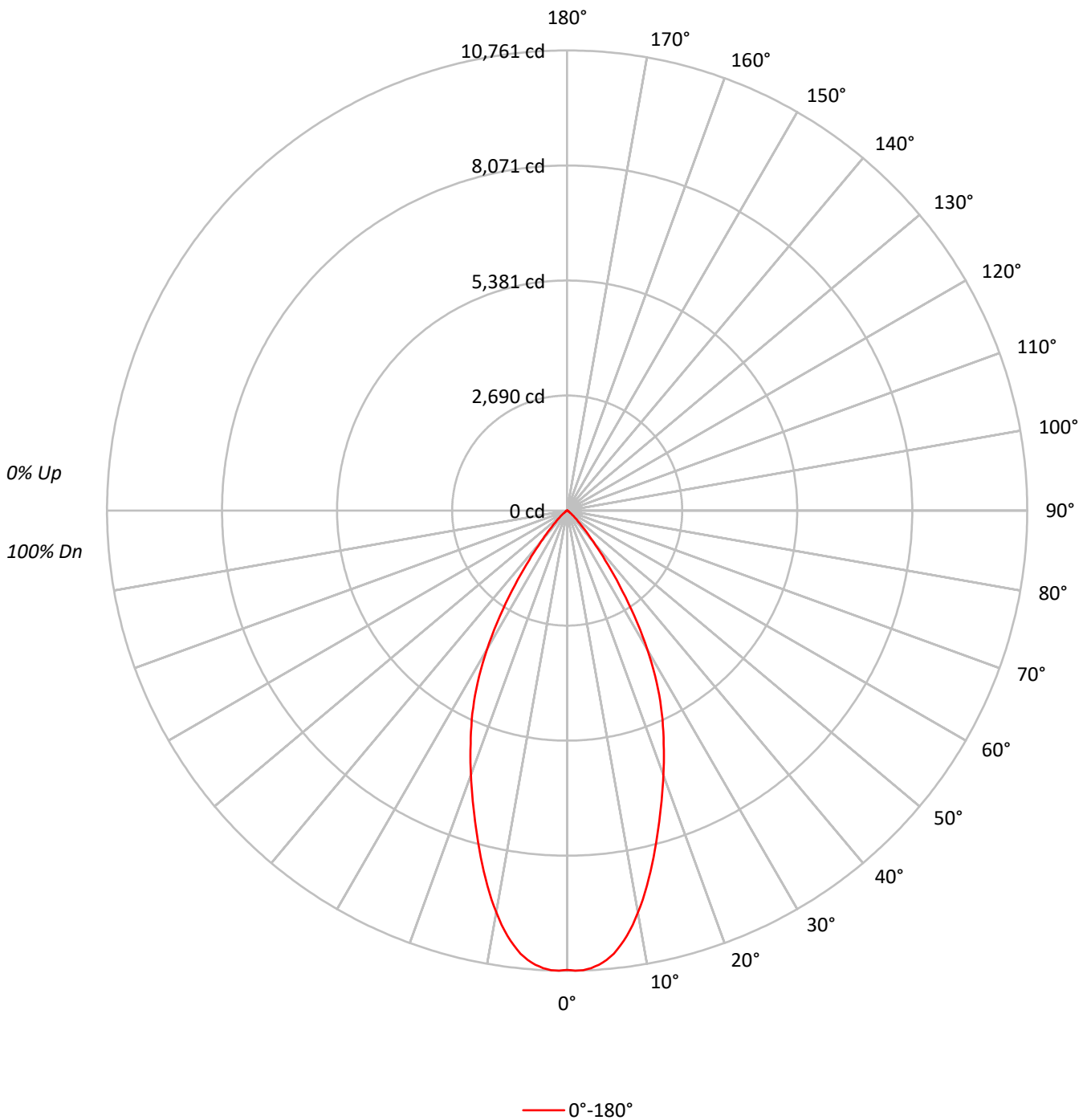
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249966

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P249966

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBN0WMH

**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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	331194
5°	326581
10°	298776
15°	256523
20°	216020
25°	178480
30°	133874
35°	79798
40°	38020
45°	16563
50°	7513
55°	3306
60°	1900
65°	1124
70°	1163
75°	0
80°	462
85°	1804



TEST NUMBER: P249966

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBN0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	974.8	13.2
10°-20°	2236.6	30.3
20°-30°	2376.1	32.2
30°-40°	1355.7	18.4
40°-50°	336.1	4.6
50°-60°	66.1	0.9
60°-70°	19.9	0.3
70°-80°	4.7	0.1
80°-90°	3.8	0.1
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°	5587.5	75.8
0°-40°	6943.2	94.2
0°-60°	7345.5	99.6
0°-90°	7374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7374.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10740	
5°	10550	975
15°	8035	2237
25°	5246	2376
35°	2120	1356
45°	380	336
55°	62	66
65°	15	20
75°	0	5
85°	5	4
90°	0	



TEST NUMBER: P249966

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBN0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10740.4
1°	10761.0
2°	10753.3
3°	10714.8
4°	10648.1
5°	10550.5
6°	10422.3
7°	10245.1
8°	10042.3
9°	9803.7
10°	9541.9
11°	9264.8
12°	8967.0
13°	8664.2
14°	8353.7
15°	8035.4
16°	7735.2
17°	7432.3
18°	7147.4
19°	6857.5
20°	6582.9
22.5°	5902.7
25°	5245.7
27.5°	4540.0
30°	3759.8
32.5°	2923.1
35°	2119.8
37.5°	1460.3
40°	944.5
42.5°	598.0
45°	379.8
47.5°	249.0
50°	156.6
52.5°	95.0
55°	61.5
57.5°	48.8
60°	30.8
62.5°	28.2
65°	15.4
67.5°	15.4
70°	12.9
72.5°	7.7
75°	0.0
77.5°	2.6
80°	2.6



TEST NUMBER: P249966

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBN0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.1
85°	5.1
87.5°	2.6
90°	0.0

(END OF REPORT)