

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: P250722

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250722
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 EC8B80835 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8352.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

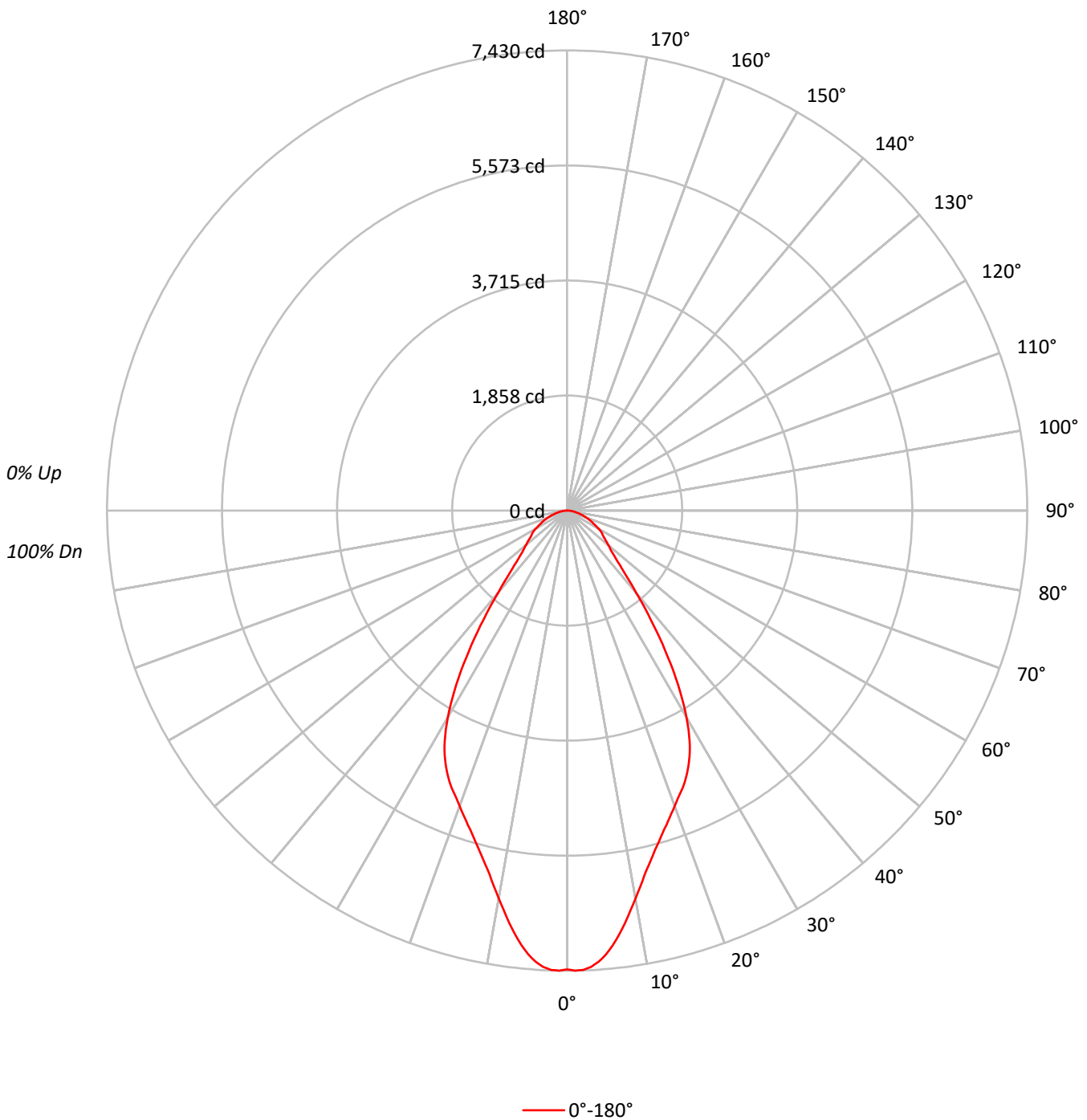
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	228454
5°	222671
10°	199066
15°	178890
20°	166597
25°	156950
30°	137232
35°	103969
40°	69841
45°	49213
50°	41732
55°	38063
60°	36060
65°	32440
70°	29194
75°	26199
80°	23174
85°	22219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.4	7.9
10°-20°	1580.3	18.9
20°-30°	2094.2	25.1
30°-40°	1717.3	20.6
40°-50°	914.6	11.0
50°-60°	643.7	7.7
60°-70°	443.9	5.3
70°-80°	231.2	2.8
80°-90°	68.4	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°	4332.9	51.9
0°-40°	6050.2	72.4
0°-60°	7608.5	91.1
0°-90°	8352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8352.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7409	
5°	7194	658
15°	5604	1580
25°	4613	2094
35°	2762	1717
45°	1128	915
55°	708	644
65°	445	444
75°	220	231
85°	63	68
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7408.6
1°	7430.4
2°	7420.7
3°	7377.2
4°	7302.3
5°	7193.6
6°	7058.3
7°	6896.4
8°	6722.4
9°	6536.3
10°	6357.5
11°	6185.9
12°	6011.9
13°	5867.0
14°	5729.3
15°	5603.6
16°	5485.2
17°	5376.5
18°	5275.0
19°	5173.5
20°	5076.8
21°	4982.6
22°	4900.5
23°	4815.8
24°	4716.8
25°	4612.9
26°	4494.5
27°	4361.6
28°	4211.8
29°	4045.0
30°	3854.1
31°	3653.6
32°	3443.4
33°	3218.6
34°	2993.9
35°	2761.9
37.5°	2213.4
40°	1735.0
42.5°	1370.1
45°	1128.5
47.5°	969.0
50°	869.9
52.5°	782.9
55°	708.0
57.5°	662.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	584.7
62.5°	509.8
65°	444.6
67.5°	386.6
70°	323.8
72.5°	270.6
75°	219.9
77.5°	159.5
80°	130.5
82.5°	94.2
85°	62.8
87.5°	29.0
90°	0.0

(END OF REPORT)