

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: P250554

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250554
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 EC8B80835 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5336.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

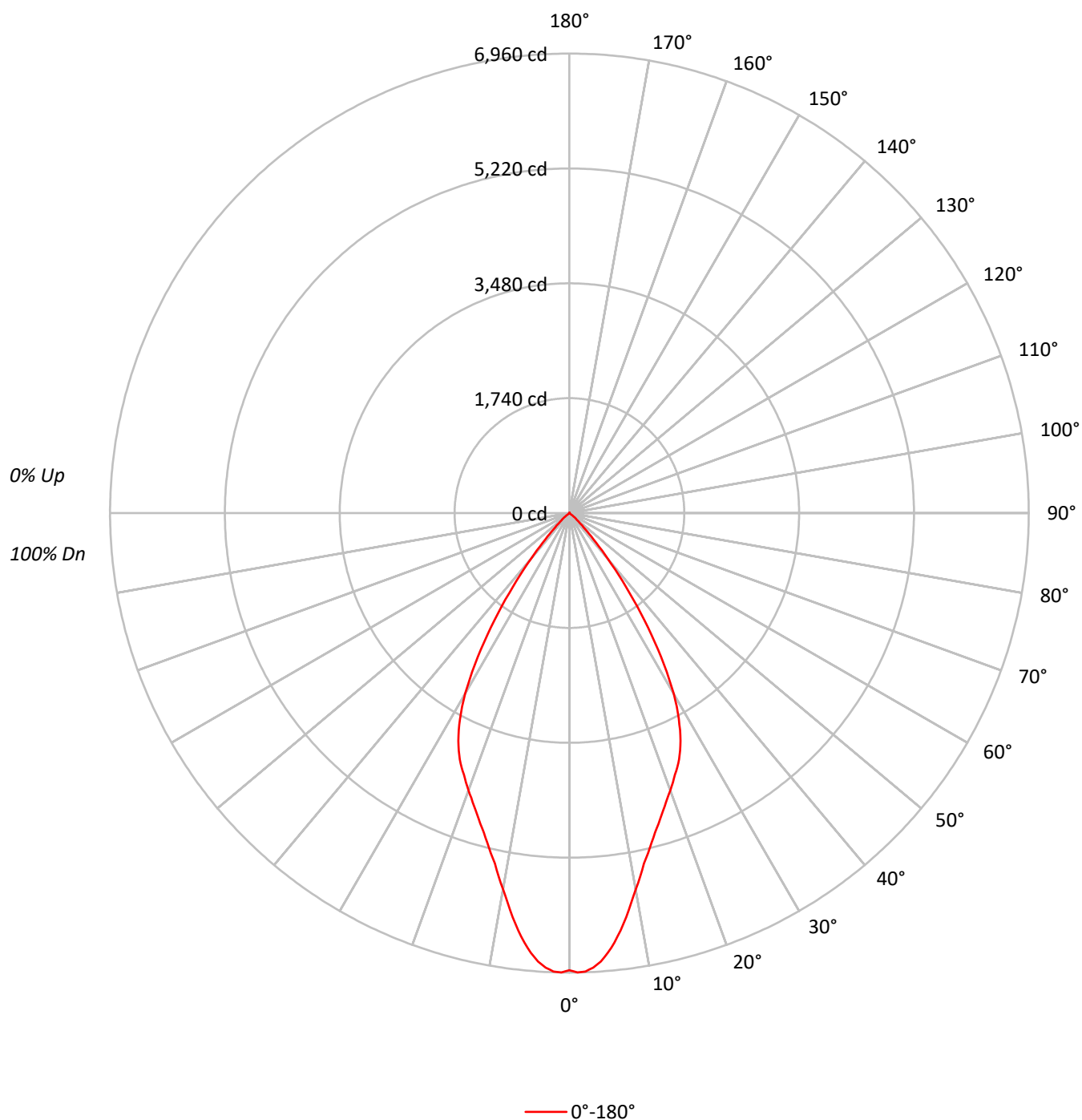
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0		
RW	70	50	30	10		70	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°	213498
5°	206972
10°	181265
15°	160032
20°	146645
25°	135025
30°	112385
35°	74645
40°	36329
45°	13157
50°	3958
55°	280
60°	0
65°	190
70°	0
75°	0
80°	462
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.1	11.4
10°-20°	1412.3	26.5
20°-30°	1791.7	33.6
30°-40°	1227.5	23.0
40°-50°	279.7	5.2
50°-60°	14.0	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°	3812.2	71.4
0°-40°	5039.6	94.4
0°-60°	5333.3	99.9
0°-90°	5336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5336.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6924	
5°	6686	608
15°	5013	1412
25°	3968	1792
35°	1983	1227
45°	302	280
55°	5	14
65°	3	1
75°	0	1
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6923.6
1°	6959.7
2°	6946.8
3°	6895.3
4°	6807.6
5°	6686.4
6°	6539.4
7°	6369.2
8°	6181.0
9°	5979.8
10°	5789.0
11°	5613.7
12°	5425.5
13°	5288.8
14°	5144.4
15°	5012.9
16°	4894.3
17°	4778.2
18°	4669.9
19°	4564.2
20°	4468.8
21°	4370.8
22°	4270.2
23°	4182.6
24°	4084.6
25°	3968.5
26°	3839.6
27°	3690.0
28°	3530.2
29°	3352.2
30°	3156.3
31°	2934.5
32°	2705.0
33°	2465.2
34°	2220.2
35°	1982.9
37.5°	1400.2
40°	902.5
42.5°	531.2
45°	301.7
47.5°	162.5
50°	82.5
52.5°	15.5
55°	5.2
57.5°	2.6



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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)