

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: P247298

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7908.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

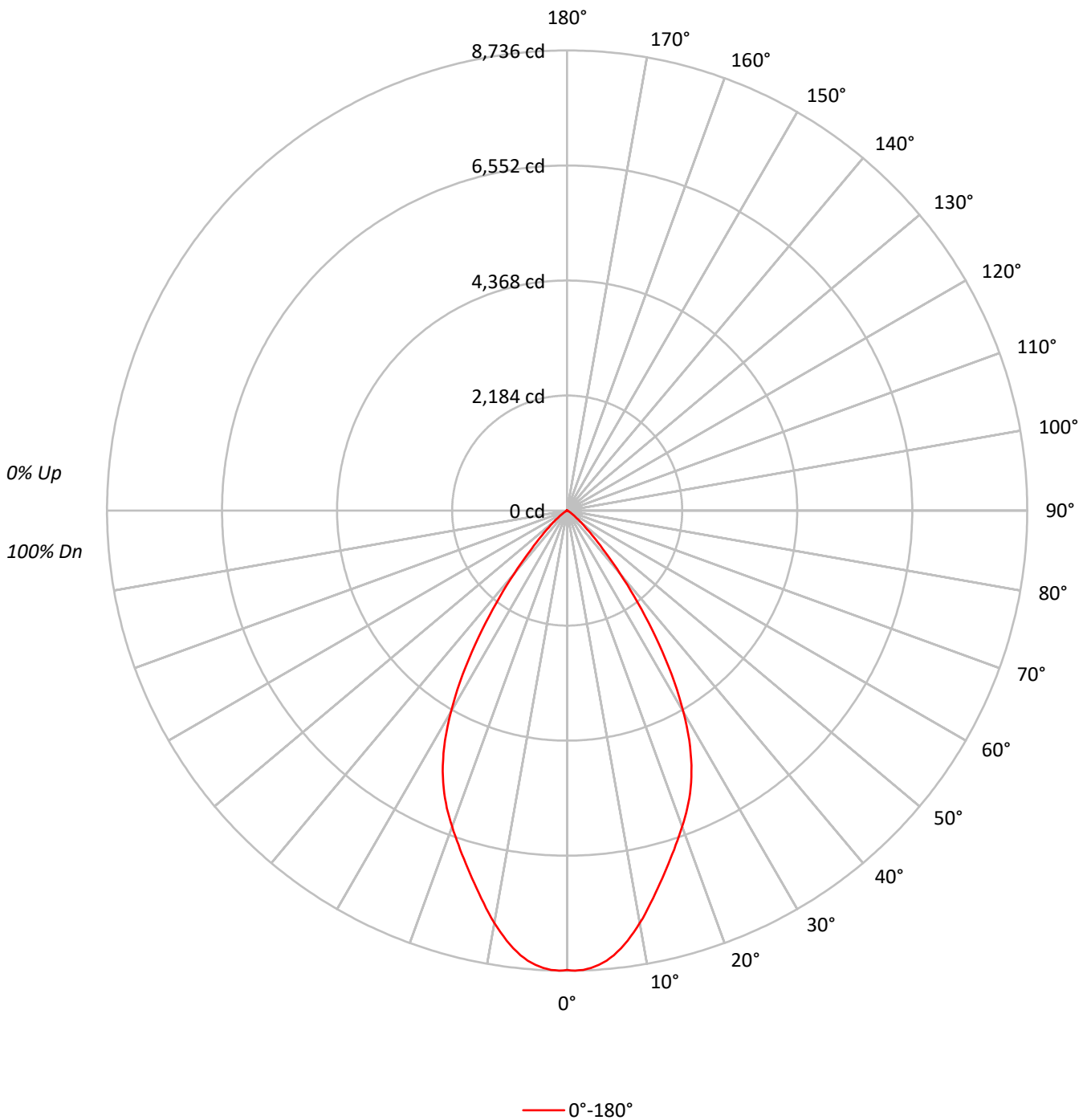
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72		79	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51		59	54	51		58	54	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	268994
5°	265530
10°	248937
15°	227638
20°	209562
25°	189889
30°	157232
35°	110267
40°	62748
45°	30797
50°	15188
55°	6892
60°	3269
65°	1766
70°	180
75°	238
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.3	10.1
10°-20°	2001.7	25.3
20°-30°	2526.8	32.0
30°-40°	1817.7	23.0
40°-50°	601.6	7.6
50°-60°	131.0	1.7
60°-70°	26.9	0.3
70°-80°	2.6	0.0
80°-90°	1.4	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°	5326.8	67.4
0°-40°	7144.4	90.3
0°-60°	7877.1	99.6
0°-90°	7908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7908.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8723	
5°	8578	798
15°	7131	2002
25°	5581	2527
35°	2929	1818
45°	706	602
55°	128	131
65°	24	27
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8723.3
1°	8735.6
2°	8725.3
3°	8696.6
4°	8643.1
5°	8578.2
6°	8488.9
7°	8372.7
8°	8244.6
9°	8104.4
10°	7950.2
11°	7792.8
12°	7621.3
13°	7456.2
14°	7290.0
15°	7130.6
16°	6973.6
17°	6823.2
18°	6674.0
19°	6530.6
20°	6386.1
21°	6238.2
22°	6093.8
23°	5936.6
24°	5767.2
25°	5581.0
26°	5385.6
27°	5167.9
28°	4937.8
29°	4682.1
30°	4415.8
31°	4135.6
32°	3840.8
33°	3531.4
34°	3228.8
35°	2929.2
37.5°	2199.8
40°	1558.8
42.5°	1056.0
45°	706.2
47.5°	473.8
50°	316.6
52.5°	191.2
55°	128.2
57.5°	89.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	53.0
62.5°	36.2
65°	24.2
67.5°	21.7
70°	2.0
72.5°	5.0
75°	2.0
77.5°	2.0
80°	0.0
82.5°	5.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)