

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: P247316

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247316
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: LSR8B100D010 EC8B100935 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8822.0 lumens
Efficiency: N/A
Efficacy: 83.0 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

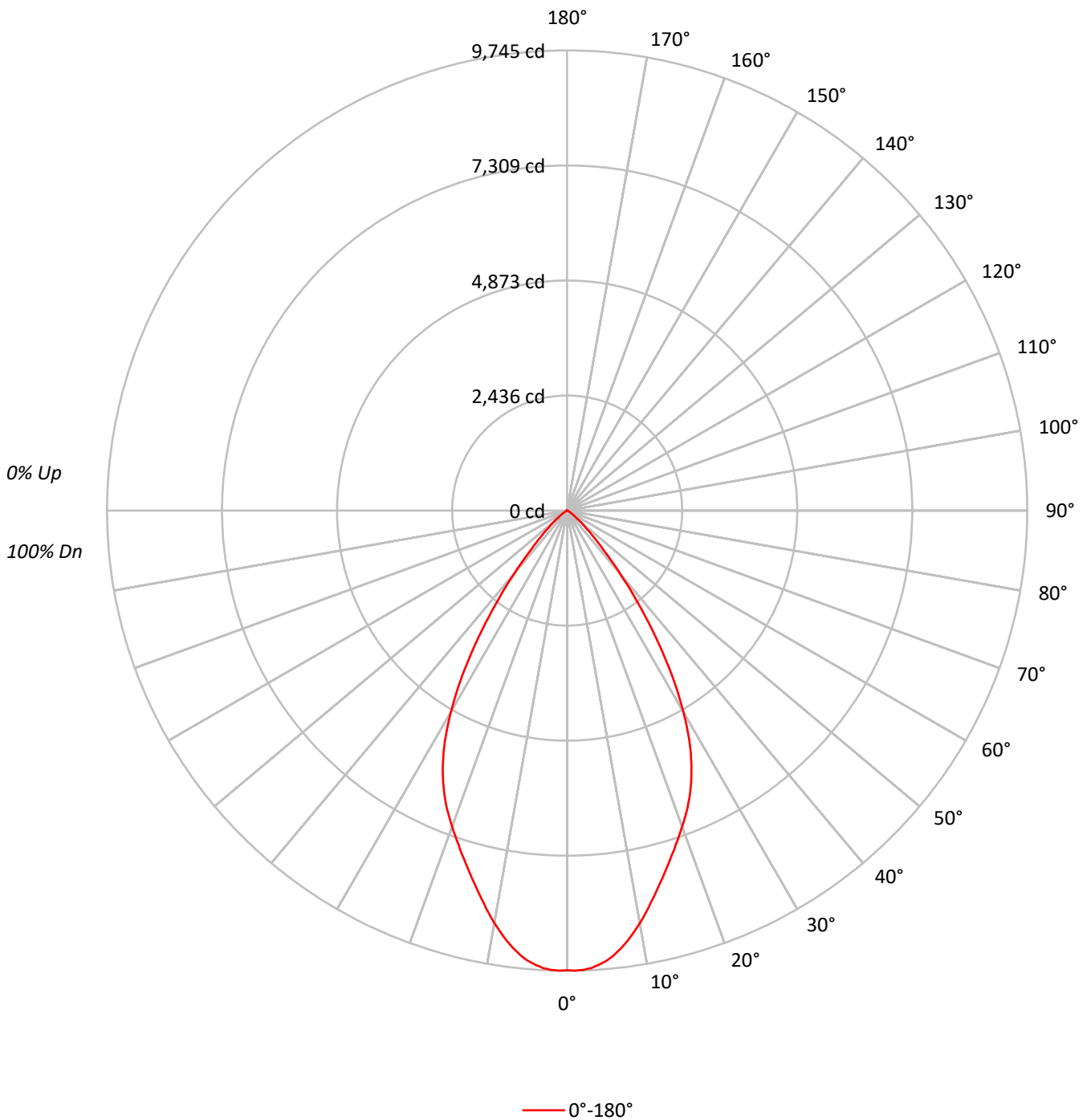
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	300087
5°	296218
10°	277709
15°	253947
20°	233783
25°	211834
30°	175402
35°	123010
40°	70002
45°	34355
50°	16944
55°	7688
60°	3645
65°	1970
70°	198
75°	262
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.5	10.1
10°-20°	2233.0	25.3
20°-30°	2818.9	32.0
30°-40°	2027.7	23.0
40°-50°	671.2	7.6
50°-60°	146.2	1.7
60°-70°	30.1	0.3
70°-80°	2.9	0.0
80°-90°	1.5	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°	5942.4	67.4
0°-40°	7970.1	90.3
0°-60°	8787.5	99.6
0°-90°	8822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8822.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9732	
5°	9570	891
15°	7955	2233
25°	6226	2819
35°	3268	2028
45°	788	671
55°	143	146
65°	27	30
75°	2	3
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9731.6
1°	9745.2
2°	9733.8
3°	9701.7
4°	9642.1
5°	9569.6
6°	9470.1
7°	9340.5
8°	9197.4
9°	9041.1
10°	8869.1
11°	8693.4
12°	8502.2
13°	8317.9
14°	8132.5
15°	7954.7
16°	7779.6
17°	7611.8
18°	7445.4
19°	7285.4
20°	7124.2
21°	6959.2
22°	6798.1
23°	6622.7
24°	6433.7
25°	6226.0
26°	6008.0
27°	5765.2
28°	5508.5
29°	5223.3
30°	4926.1
31°	4613.6
32°	4284.7
33°	3939.6
34°	3602.0
35°	3267.7
37.5°	2454.0
40°	1739.0
42.5°	1178.1
45°	787.8
47.5°	528.5
50°	353.2
52.5°	213.3
55°	143.0
57.5°	99.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	59.1
62.5°	40.4
65°	27.0
67.5°	24.3
70°	2.2
72.5°	5.6
75°	2.2
77.5°	2.2
80°	0.0
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)