

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: P244391

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50835 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5426.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

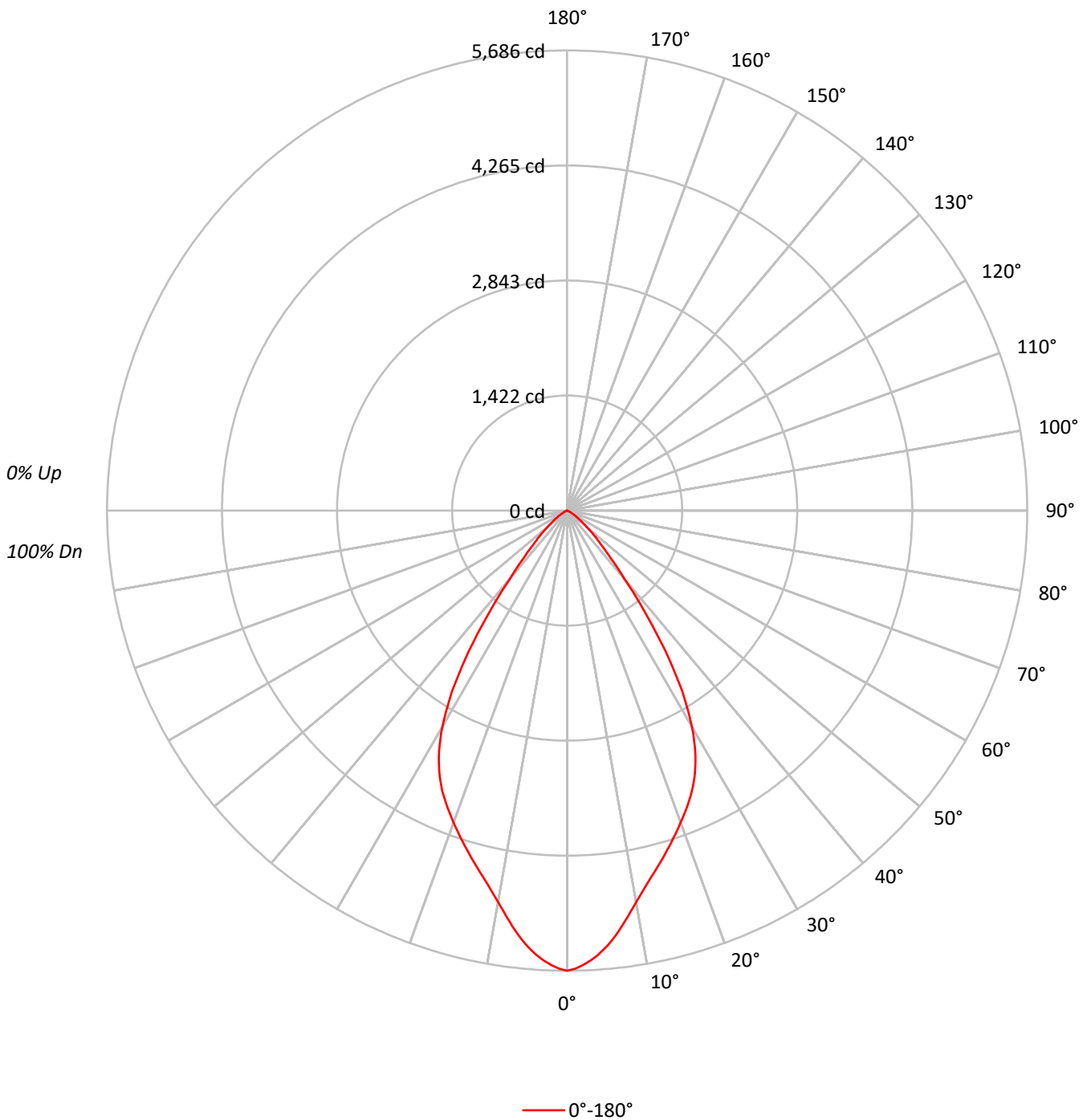
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	175326
5°	167892
10°	153839
15°	143148
20°	134638
25°	125967
30°	109857
35°	79395
40°	44513
45°	25607
50°	15673
55°	8919
60°	4638
65°	2364
70°	1289
75°	774
80°	462
85°	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.8	9.2
10°-20°	1260.5	23.2
20°-30°	1681.9	31.0
30°-40°	1296.4	23.9
40°-50°	483.4	8.9
50°-60°	158.1	2.9
60°-70°	36.5	0.7
70°-80°	7.3	0.1
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°	3443.3	63.5
0°-40°	4739.7	87.4
0°-60°	5381.2	99.2
0°-90°	5426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5426.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5686	
5°	5424	501
15°	4484	1261
25°	3702	1682
35°	2109	1296
45°	587	483
55°	166	158
65°	32	36
75°	6	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5685.7
1°	5661.1
2°	5619.6
3°	5566.5
4°	5501.6
5°	5423.9
6°	5335.7
7°	5234.6
8°	5127.0
9°	5015.5
10°	4913.1
11°	4814.6
12°	4722.5
13°	4638.3
14°	4560.5
15°	4484.0
16°	4406.2
17°	4331.1
18°	4253.3
19°	4176.8
20°	4102.9
21°	4026.4
22°	3952.5
23°	3874.7
24°	3793.1
25°	3702.3
26°	3602.5
27°	3492.3
28°	3370.5
29°	3234.4
30°	3085.3
32.5°	2648.4
35°	2109.1
37.5°	1562.1
40°	1105.8
42.5°	792.1
45°	587.2
47.5°	442.1
50°	326.7
52.5°	233.3
55°	165.9
57.5°	114.1
60°	75.2
62.5°	49.3
65°	32.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	22.0
70°	14.3
72.5°	9.1
75°	6.5
77.5°	3.9
80°	2.6
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)