

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: P244421

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244421
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 EC8B50935 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4627.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

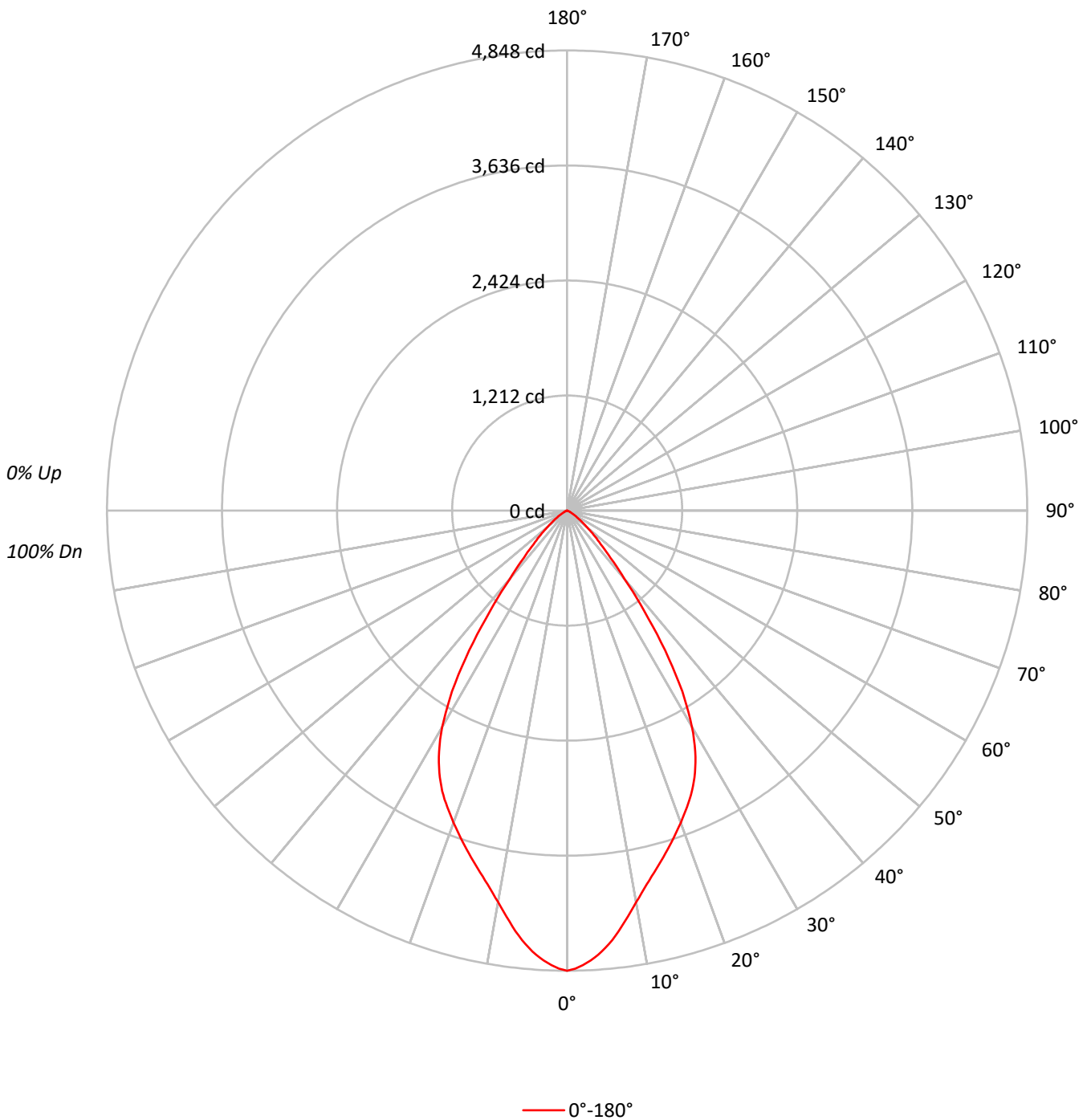
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	149510
5°	143169
10°	131185
15°	122068
20°	114811
25°	107421
30°	93681
35°	67707
40°	37955
45°	21839
50°	13365
55°	7607
60°	3953
65°	2014
70°	1100
75°	655
80°	391
85°	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	9.2
10°-20°	1074.9	23.2
20°-30°	1434.3	31.0
30°-40°	1105.5	23.9
40°-50°	412.2	8.9
50°-60°	134.8	2.9
60°-70°	31.1	0.7
70°-80°	6.2	0.1
80°-90°	0.9	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°	2936.2	63.5
0°-40°	4041.8	87.4
0°-60°	4588.8	99.2
0°-90°	4627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4627.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4848	
5°	4625	427
15°	3824	1075
25°	3157	1434
35°	1799	1106
45°	501	412
55°	142	135
65°	28	31
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4848.5
1°	4827.5
2°	4792.1
3°	4746.8
4°	4691.5
5°	4625.2
6°	4550.0
7°	4463.8
8°	4372.0
9°	4277.0
10°	4189.6
11°	4105.6
12°	4027.1
13°	3955.3
14°	3889.0
15°	3823.7
16°	3757.4
17°	3693.3
18°	3627.0
19°	3561.7
20°	3498.7
21°	3433.5
22°	3370.5
23°	3304.2
24°	3234.5
25°	3157.2
26°	3072.0
27°	2978.1
28°	2874.2
29°	2758.1
30°	2631.0
32.5°	2258.4
35°	1798.6
37.5°	1332.1
40°	942.9
42.5°	675.4
45°	500.8
47.5°	377.0
50°	278.6
52.5°	199.0
55°	141.5
57.5°	97.3
60°	64.1
62.5°	42.0
65°	27.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	18.8
70°	12.2
72.5°	7.7
75°	5.5
77.5°	3.3
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)