

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: P244349

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50935 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE 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: 4252.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

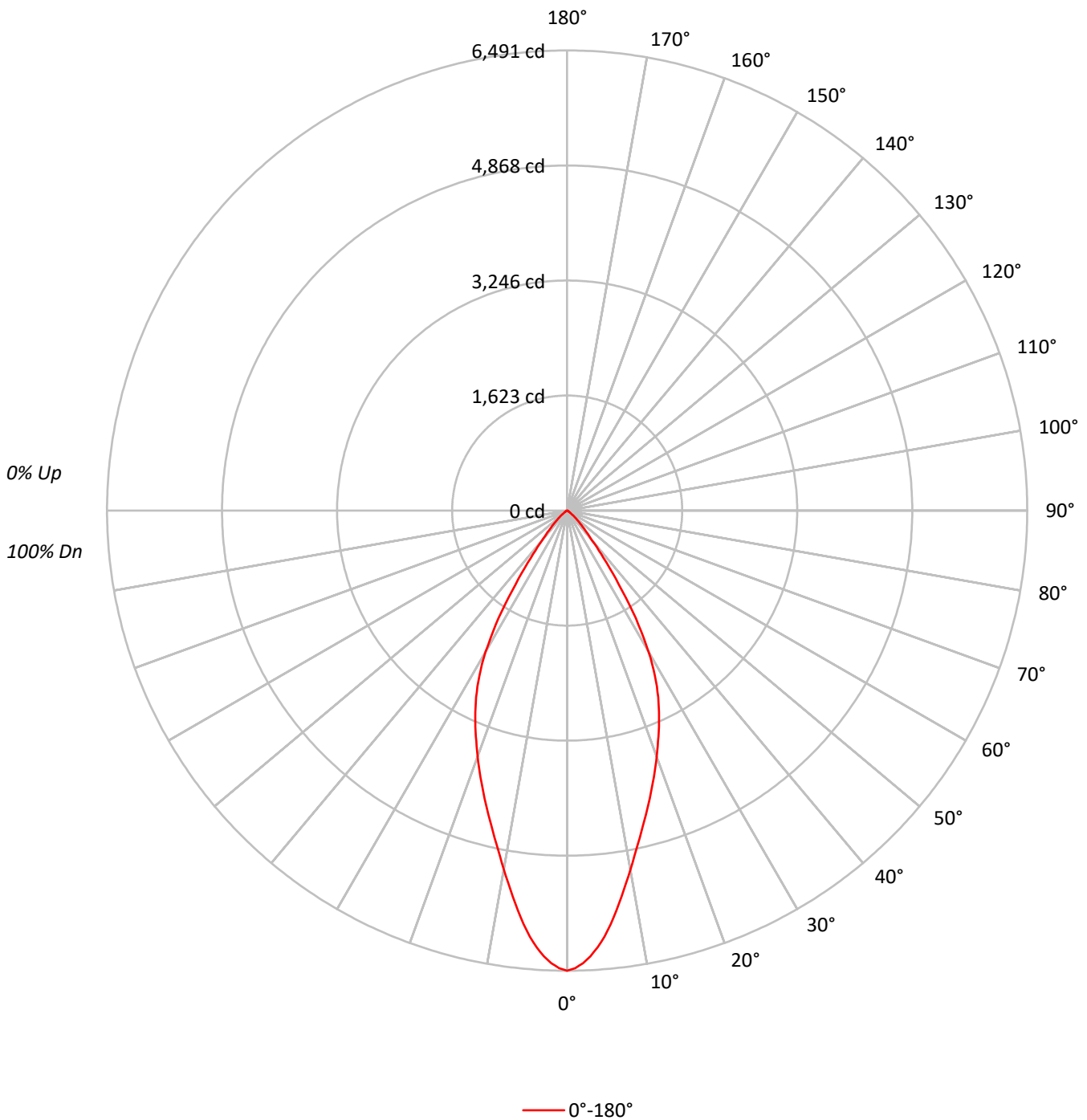
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200149
5°	186690
10°	160925
15°	139272
20°	121154
25°	104117
30°	81810
35°	47733
40°	22023
45°	11399
50°	5718
55°	2779
60°	1418
65°	839
70°	388
75°	346
80°	249
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.8	12.8
10°-20°	1219.8	28.7
20°-30°	1386.8	32.6
30°-40°	814.5	19.2
40°-50°	218.6	5.1
50°-60°	51.9	1.2
60°-70°	11.8	0.3
70°-80°	2.6	0.1
80°-90°	0.2	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°	3152.4	74.1
0°-40°	3966.9	93.3
0°-60°	4237.4	99.7
0°-90°	4252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6491	
5°	6031	546
15°	4363	1220
25°	3060	1387
35°	1268	814
45°	261	219
55°	52	52
65°	12	12
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6490.7
1°	6454.8
2°	6388.8
3°	6295.4
4°	6174.8
5°	6031.2
6°	5868.9
7°	5685.1
8°	5501.3
9°	5316.1
10°	5139.4
11°	4967.1
12°	4804.9
13°	4654.1
14°	4503.3
15°	4362.6
16°	4224.7
17°	4088.3
18°	3956.2
19°	3822.6
20°	3692.0
21°	3561.3
22°	3436.3
23°	3312.9
24°	3186.5
25°	3060.1
26°	2929.4
27°	2787.3
28°	2637.9
29°	2474.2
30°	2297.6
32.5°	1802.2
35°	1268.0
37.5°	835.8
40°	547.1
42.5°	377.7
45°	261.4
47.5°	179.5
50°	119.2
52.5°	77.5
55°	51.7
57.5°	34.5
60°	23.0
62.5°	15.8
65°	11.5



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	7.2
70°	4.3
72.5°	2.9
75°	2.9
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)