

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: P244397

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244397
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 EC8B50840 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5390.0 lumens
Efficiency: N/A
Efficacy: 101.7 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

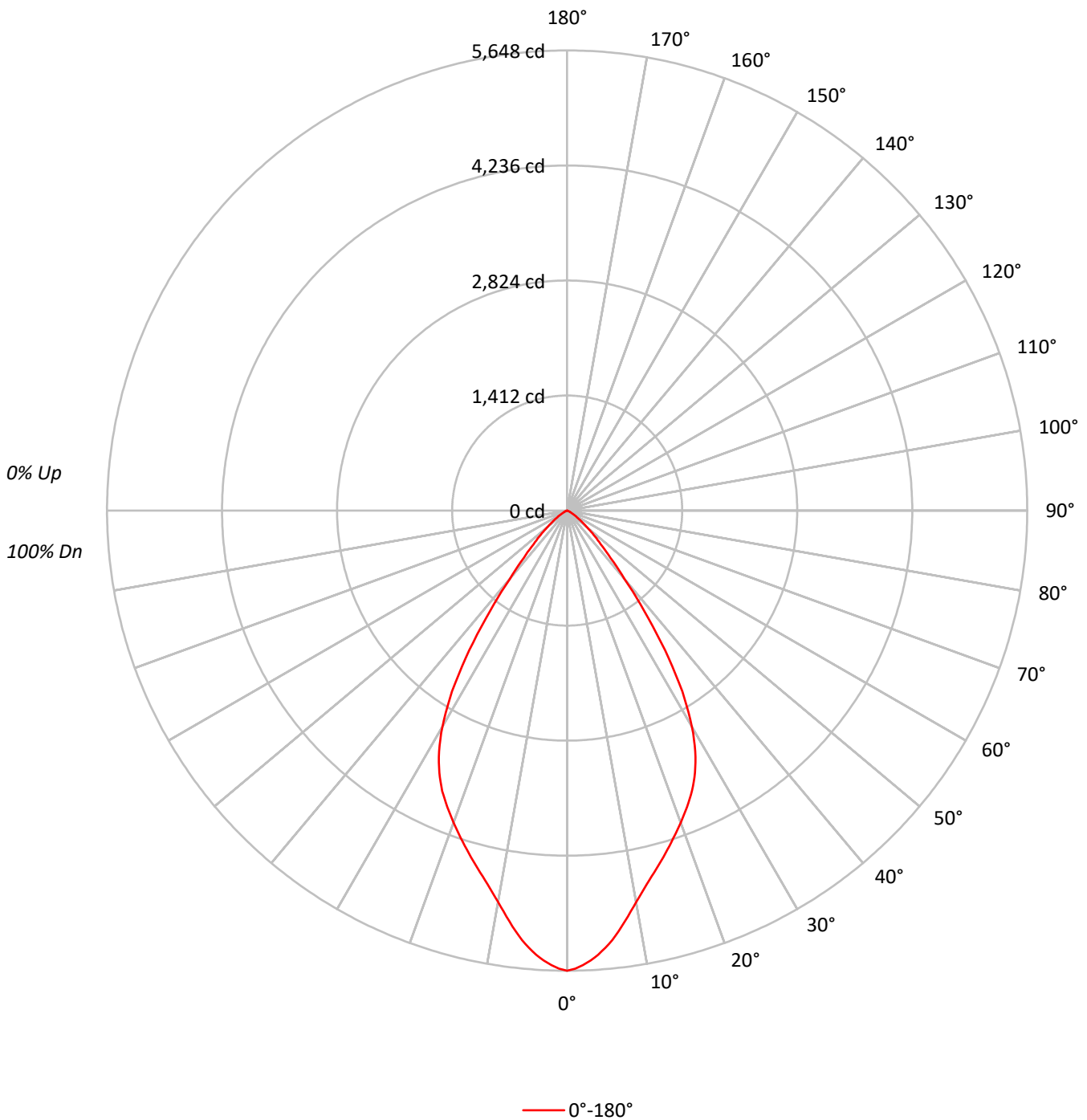
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	174164
5°	166778
10°	152818
15°	142200
20°	133745
25°	125134
30°	109127
35°	78868
40°	44215
45°	25437
50°	15567
55°	8860
60°	4607
65°	2349
70°	1280
75°	763
80°	462
85°	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.5	9.2
10°-20°	1252.2	23.2
20°-30°	1670.8	31.0
30°-40°	1287.8	23.9
40°-50°	480.2	8.9
50°-60°	157.0	2.9
60°-70°	36.2	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°	3420.4	63.5
0°-40°	4708.2	87.4
0°-60°	5345.4	99.2
0°-90°	5390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5390.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5648	
5°	5388	497
15°	4454	1252
25°	3678	1671
35°	2095	1288
45°	583	480
55°	165	157
65°	32	36
75°	6	7
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5648.0
1°	5623.5
2°	5582.3
3°	5529.5
4°	5465.1
5°	5387.9
6°	5300.3
7°	5199.9
8°	5093.0
9°	4982.2
10°	4880.5
11°	4782.6
12°	4691.2
13°	4607.5
14°	4530.2
15°	4454.3
16°	4377.0
17°	4302.3
18°	4225.1
19°	4149.1
20°	4075.7
21°	3999.7
22°	3926.3
23°	3849.0
24°	3767.9
25°	3677.8
26°	3578.6
27°	3469.2
28°	3348.1
29°	3212.9
30°	3064.8
32.5°	2630.8
35°	2095.1
37.5°	1551.7
40°	1098.4
42.5°	786.8
45°	583.3
47.5°	439.1
50°	324.5
52.5°	231.8
55°	164.8
57.5°	113.3
60°	74.7
62.5°	48.9
65°	32.2



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	21.9
70°	14.2
72.5°	9.0
75°	6.4
77.5°	3.9
80°	2.6
82.5°	1.3
85°	1.3
87.5°	0.0
90°	0.0

(END OF REPORT)