

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: P244259

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50850 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5590.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

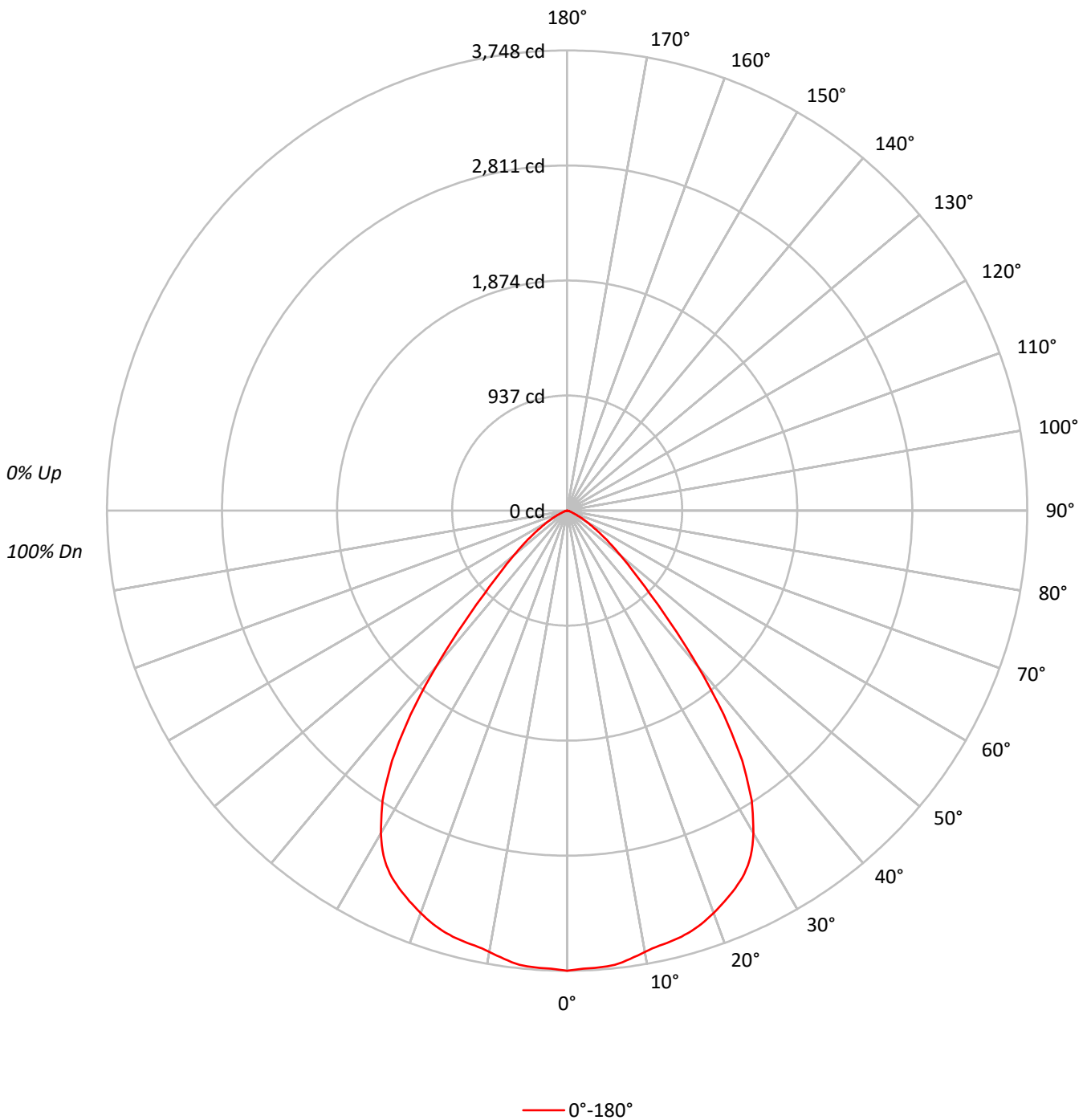
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	71		77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65		73	68	64		71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59		68	62	58		66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54		63	57	53		62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49		58	53	49		57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46		55	49	45		54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	115584
5°	115326
10°	114283
15°	114710
20°	114466
25°	113351
30°	108038
35°	93542
40°	66729
45°	41006
50°	27052
55°	17892
60°	11459
65°	6246
70°	3056
75°	1537
80°	852
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.2	6.3
10°-20°	1013.5	18.1
20°-30°	1525.2	27.3
30°-40°	1510.0	27.0
40°-50°	767.3	13.7
50°-60°	309.1	5.5
60°-70°	93.6	1.7
70°-80°	16.1	0.3
80°-90°	2.0	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°	2891.9	51.7
0°-40°	4401.9	78.7
0°-60°	5478.3	98.0
0°-90°	5590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5590.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3748	
5°	3726	353
15°	3593	1013
25°	3332	1525
35°	2485	1510
45°	940	767
55°	333	309
65°	86	94
75°	13	16
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3748.3
1°	3740.2
2°	3733.8
3°	3732.2
4°	3730.5
5°	3725.7
6°	3719.2
7°	3706.3
8°	3686.9
9°	3669.2
10°	3649.8
11°	3633.6
12°	3622.3
13°	3614.2
14°	3604.5
15°	3593.2
16°	3578.7
17°	3560.9
18°	3539.9
19°	3515.7
20°	3488.2
21°	3459.1
22°	3430.0
23°	3399.3
24°	3367.0
25°	3331.5
26°	3292.7
27°	3242.6
28°	3184.5
29°	3115.0
30°	3034.2
32.5°	2798.3
35°	2484.9
37.5°	2093.9
40°	1657.7
42.5°	1252.1
45°	940.3
47.5°	719.0
50°	563.9
52.5°	437.8
55°	332.8
57.5°	247.2
60°	185.8
62.5°	132.5
65°	85.6



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	53.3
70°	33.9
72.5°	21.0
75°	12.9
77.5°	8.1
80°	4.8
82.5°	3.2
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)