

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: P244241

Luminaire Tested: **LSR8B50D010 EC8B50830 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244241
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 EC8B50830 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5307.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

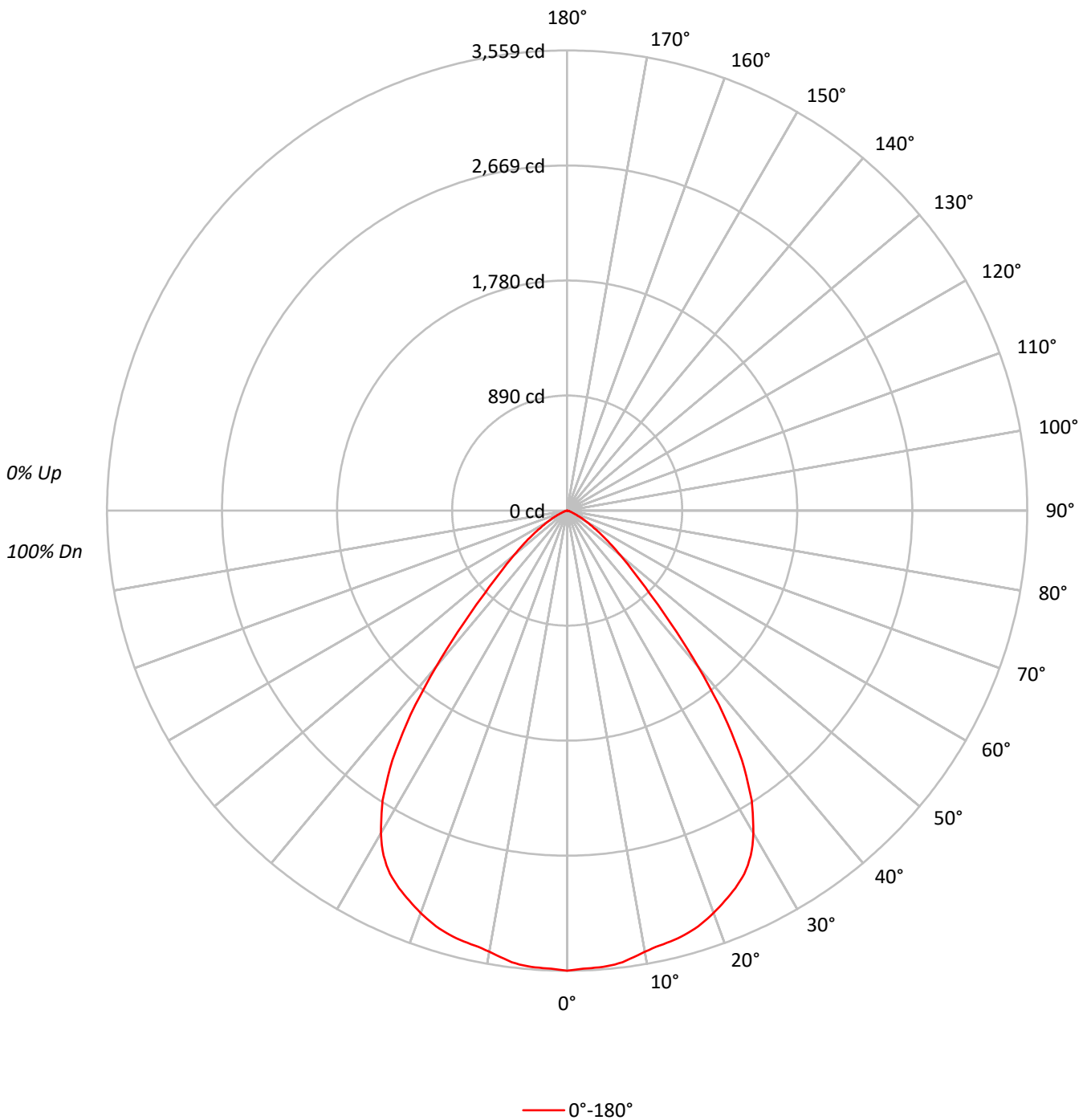
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	109734
5°	109488
10°	108496
15°	108903
20°	108671
25°	107611
30°	102569
35°	88806
40°	63348
45°	38930
50°	25680
55°	16989
60°	10879
65°	5932
70°	2903
75°	1465
80°	817
85°	531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.3	6.3
10°-20°	962.2	18.1
20°-30°	1448.0	27.3
30°-40°	1433.6	27.0
40°-50°	728.4	13.7
50°-60°	293.5	5.5
60°-70°	88.9	1.7
70°-80°	15.3	0.3
80°-90°	1.9	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°	2745.5	51.7
0°-40°	4179.0	78.7
0°-60°	5200.9	98.0
0°-90°	5307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5307.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3559	
5°	3537	335
15°	3411	962
25°	3163	1448
35°	2359	1434
45°	893	728
55°	316	293
65°	81	89
75°	12	15
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3558.6
1°	3550.9
2°	3544.8
3°	3543.2
4°	3541.7
5°	3537.1
6°	3530.9
7°	3518.7
8°	3500.3
9°	3483.4
10°	3465.0
11°	3449.7
12°	3438.9
13°	3431.2
14°	3422.0
15°	3411.3
16°	3397.5
17°	3380.6
18°	3360.7
19°	3337.7
20°	3311.6
21°	3284.0
22°	3256.4
23°	3227.2
24°	3196.6
25°	3162.8
26°	3126.0
27°	3078.5
28°	3023.2
29°	2957.3
30°	2880.6
32.5°	2656.6
35°	2359.1
37.5°	1987.9
40°	1573.7
42.5°	1188.7
45°	892.7
47.5°	682.6
50°	535.3
52.5°	415.7
55°	316.0
57.5°	234.7
60°	176.4
62.5°	125.8
65°	81.3



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	50.6
70°	32.2
72.5°	19.9
75°	12.3
77.5°	7.7
80°	4.6
82.5°	3.1
85°	1.5
87.5°	0.0
90°	0.0

(END OF REPORT)