

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: P246593

Luminaire Tested: **LSR8B50D010 EC8B50950 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50950 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5174.9 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

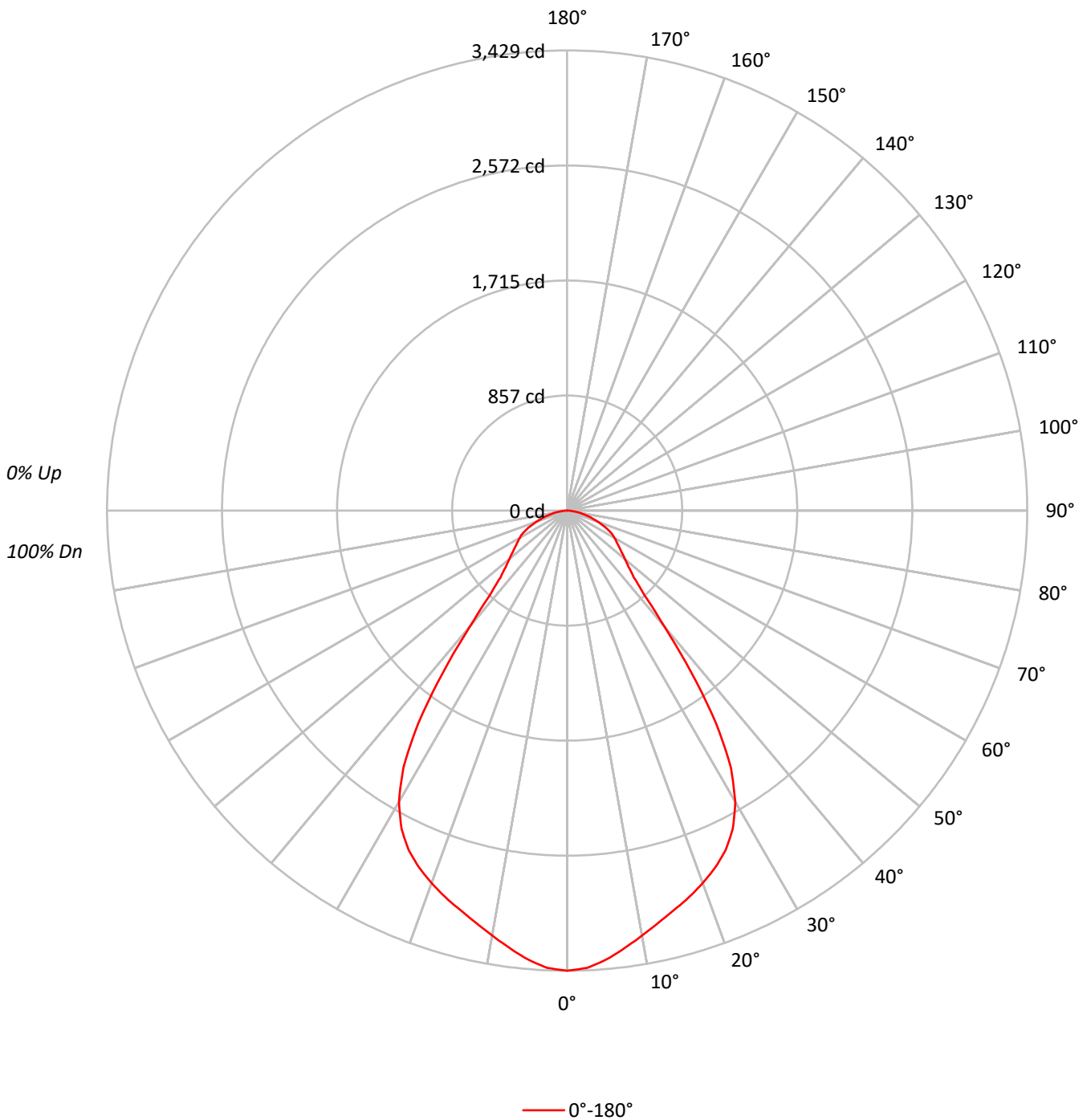
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	105732
5°	103950
10°	100681
15°	98352
20°	96950
25°	95050
30°	89245
35°	72849
40°	45125
45°	30566
50°	26927
55°	25413
60°	25206
65°	24429
70°	21900
75°	18967
80°	16035
85°	12772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	6.1
10°-20°	870.1	16.8
20°-30°	1276.1	24.7
30°-40°	1166.4	22.5
40°-50°	577.5	11.2
50°-60°	427.0	8.3
60°-70°	328.2	6.3
70°-80°	171.1	3.3
80°-90°	42.6	0.8
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°	2462.1	47.6
0°-40°	3628.5	70.1
0°-60°	4633.0	89.5
0°-90°	5174.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5174.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3429	
5°	3358	316
15°	3081	870
25°	2794	1276
35°	1935	1166
45°	701	577
55°	473	427
65°	335	328
75°	159	171
85°	36	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3428.8
2.5°	3410.7
5°	3358.2
7.5°	3287.6
10°	3215.4
12.5°	3144.8
15°	3080.8
17.5°	3020.1
20°	2954.4
22.5°	2880.6
25°	2793.6
27.5°	2673.8
30°	2506.4
32.5°	2271.6
35°	1935.2
37.5°	1518.3
40°	1121.0
42.5°	848.6
45°	700.9
47.5°	620.4
50°	561.3
52.5°	513.7
55°	472.7
57.5°	438.2
60°	408.7
62.5°	377.5
65°	334.8
67.5°	288.9
70°	242.9
72.5°	200.2
75°	159.2
77.5°	123.1
80°	90.3
82.5°	62.4
85°	36.1
87.5°	13.1
90°	0.0

(END OF REPORT)