

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: P246557

Luminaire Tested: **LSR8B50D010 EC8B50840 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246557
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 EC8B50840 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5574.9 lumens
Efficiency: N/A
Efficacy: 105.2 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

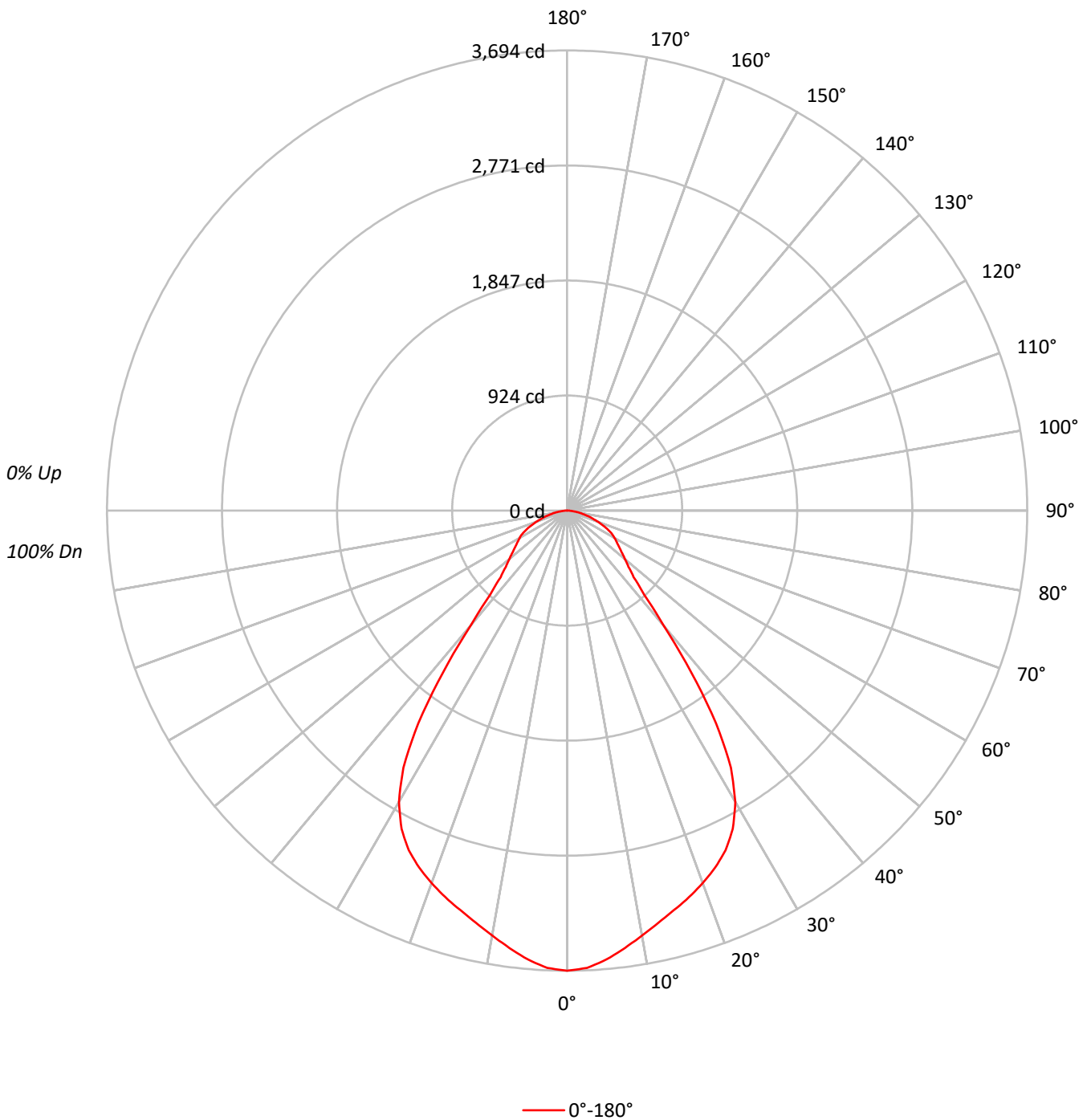
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	113903
5°	111986
10°	108465
15°	105956
20°	104445
25°	102396
30°	96142
35°	78477
40°	48615
45°	32925
50°	29009
55°	27375
60°	27154
65°	26318
70°	23595
75°	20433
80°	17278
85°	13763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	6.1
10°-20°	937.4	16.8
20°-30°	1374.7	24.7
30°-40°	1256.6	22.5
40°-50°	622.1	11.2
50°-60°	460.0	8.3
60°-70°	353.6	6.3
70°-80°	184.3	3.3
80°-90°	45.9	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°	2652.4	47.6
0°-40°	3909.0	70.1
0°-60°	4991.1	89.5
0°-90°	5574.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5574.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3694	
5°	3618	340
15°	3319	937
25°	3010	1375
35°	2085	1257
45°	755	622
55°	509	460
65°	361	354
75°	172	184
85°	39	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3693.8
2.5°	3674.4
5°	3617.8
7.5°	3541.8
10°	3464.0
12.5°	3387.9
15°	3319.0
17.5°	3253.5
20°	3182.8
22.5°	3103.2
25°	3009.5
27.5°	2880.4
30°	2700.1
32.5°	2447.2
35°	2084.7
37.5°	1635.6
40°	1207.7
42.5°	914.2
45°	755.0
47.5°	668.4
50°	604.7
52.5°	553.5
55°	509.2
57.5°	472.1
60°	440.3
62.5°	406.7
65°	360.7
67.5°	311.2
70°	261.7
72.5°	215.7
75°	171.5
77.5°	132.6
80°	97.3
82.5°	67.2
85°	38.9
87.5°	14.1
90°	0.0

(END OF REPORT)