

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: P246563

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246563  
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 EC8B50850 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5684.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 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

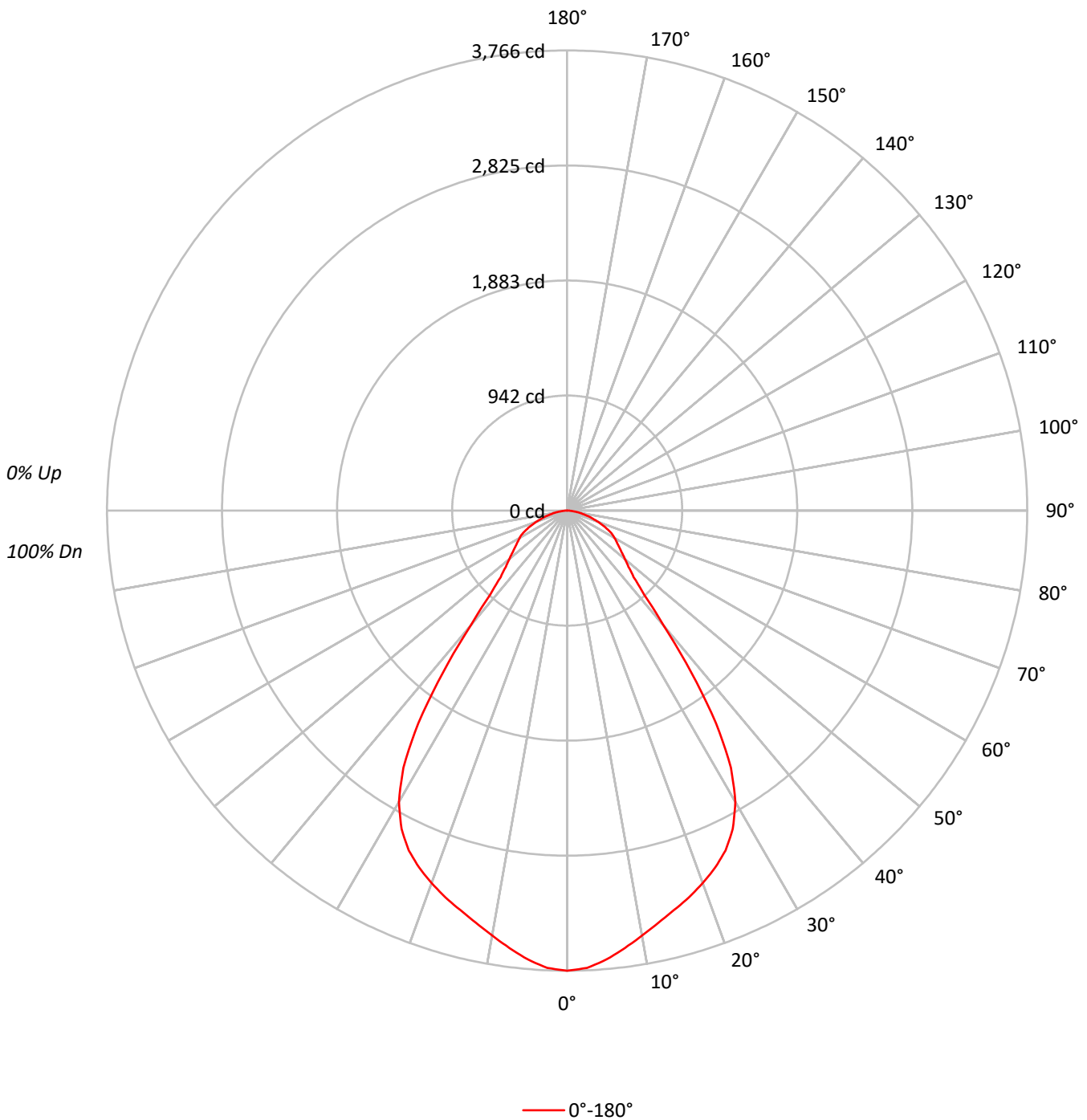
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	116130
5°	114174
10°	110585
15°	108028
20°	106486
25°	104400
30°	98022
35°	80013
40°	49565
45°	33570
50°	29580
55°	27913
60°	27685
65°	26837
70°	24055
75°	20838
80°	17616
85°	14046



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.0	6.1
10°-20°	955.7	16.8
20°-30°	1401.6	24.7
30°-40°	1281.2	22.5
40°-50°	634.3	11.2
50°-60°	469.0	8.3
60°-70°	360.5	6.3
70°-80°	187.9	3.3
80°-90°	46.8	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°	2704.3	47.6
0°-40°	3985.4	70.1
0°-60°	5088.8	89.5
0°-90°	5684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5684.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3766	
5°	3688	347
15°	3384	956
25°	3068	1402
35°	2126	1281
45°	770	634
55°	519	469
65°	368	361
75°	175	188
85°	40	47
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3766.0
2.5°	3746.2
5°	3688.5
7.5°	3611.0
10°	3531.7
12.5°	3454.2
15°	3383.9
17.5°	3317.2
20°	3245.0
22.5°	3163.9
25°	3068.4
27.5°	2936.8
30°	2752.9
32.5°	2495.1
35°	2125.5
37.5°	1667.6
40°	1231.3
42.5°	932.0
45°	769.8
47.5°	681.5
50°	616.6
52.5°	564.3
55°	519.2
57.5°	481.3
60°	448.9
62.5°	414.6
65°	367.8
67.5°	317.3
70°	266.8
72.5°	219.9
75°	174.9
77.5°	135.2
80°	99.2
82.5°	68.5
85°	39.7
87.5°	14.4
90°	0.0

(END OF REPORT)