

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: P246581

Luminaire Tested: **LD8B50D010 ER8B50935 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246581  
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: LD8B50D010 ER8B50935 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4785.0 lumens  
Efficiency: N/A  
Efficacy: 90.3 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

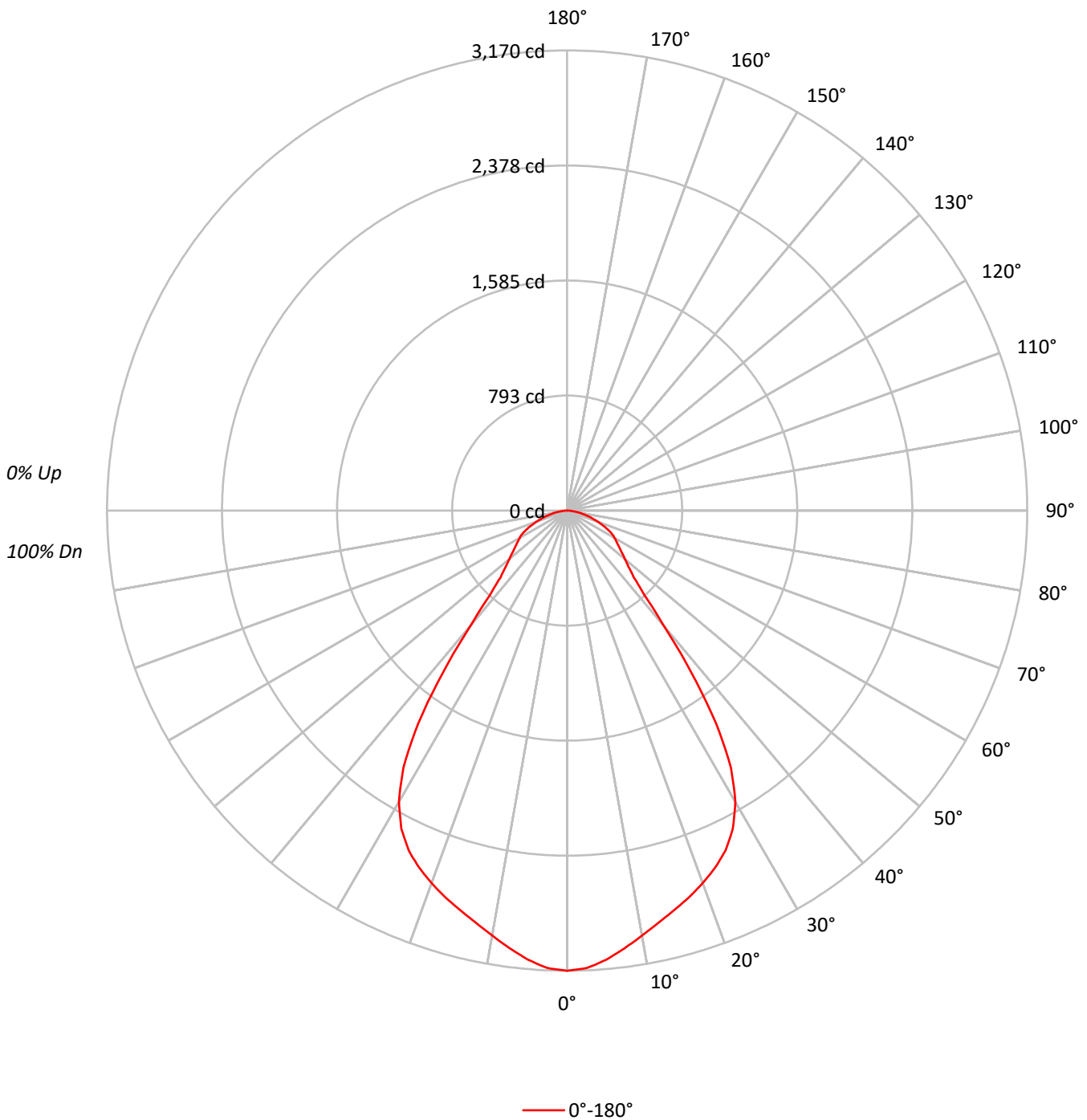
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	97763
5°	96116
10°	93094
15°	90942
20°	89645
25°	87888
30°	82519
35°	67357
40°	41727
45°	28259
50°	24898
55°	23499
60°	23306
65°	22590
70°	20250
75°	17538
80°	14828
85°	11817



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	6.1
10°-20°	804.6	16.8
20°-30°	1179.9	24.7
30°-40°	1078.5	22.5
40°-50°	533.9	11.2
50°-60°	394.8	8.3
60°-70°	303.5	6.3
70°-80°	158.2	3.3
80°-90°	39.4	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°	2276.6	47.6
0°-40°	3355.1	70.1
0°-60°	4283.9	89.5
0°-90°	4785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3170	
5°	3105	292
15°	2849	805
25°	2583	1180
35°	1789	1079
45°	648	534
55°	437	395
65°	310	304
75°	147	158
85°	33	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3170.4
2.5°	3153.7
5°	3105.1
7.5°	3039.9
10°	2973.1
12.5°	2907.8
15°	2848.7
17.5°	2792.5
20°	2731.8
22.5°	2663.5
25°	2583.1
27.5°	2472.3
30°	2317.5
32.5°	2100.4
35°	1789.3
37.5°	1403.8
40°	1036.6
42.5°	784.6
45°	648.0
47.5°	573.7
50°	519.0
52.5°	475.0
55°	437.1
57.5°	405.2
60°	377.9
62.5°	349.1
65°	309.6
67.5°	267.1
70°	224.6
72.5°	185.2
75°	147.2
77.5°	113.8
80°	83.5
82.5°	57.7
85°	33.4
87.5°	12.1
90°	0.0

(END OF REPORT)