

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: P246545

Luminaire Tested: **LD8B50D010 ER8B50830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246545  
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 ER8B50830 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5396.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 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

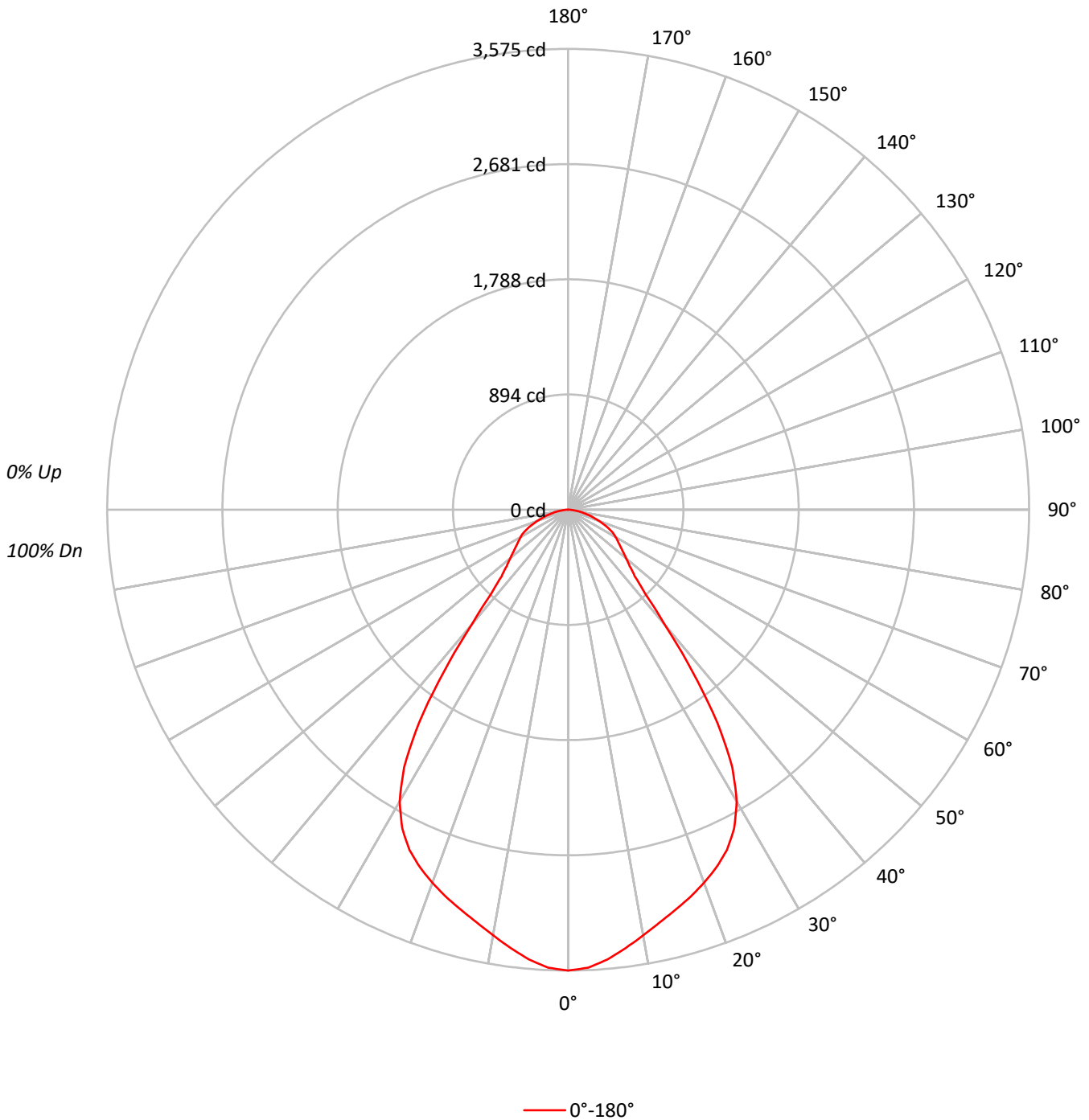
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	110246
5°	108389
10°	104980
15°	102553
20°	101091
25°	99109
30°	93055
35°	75958
40°	47053
45°	31870
50°	28078
55°	26499
60°	26285
65°	25472
70°	22837
75°	19778
80°	16710
85°	13339



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.4	6.1
10°-20°	907.3	16.8
20°-30°	1330.6	24.7
30°-40°	1216.2	22.5
40°-50°	602.1	11.2
50°-60°	445.3	8.3
60°-70°	342.2	6.3
70°-80°	178.4	3.3
80°-90°	44.5	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°	2567.2	47.6
0°-40°	3783.5	70.1
0°-60°	4830.9	89.5
0°-90°	5396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3575	
5°	3502	329
15°	3212	907
25°	2913	1331
35°	2018	1216
45°	731	602
55°	493	445
65°	349	342
75°	166	178
85°	38	44
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3575.2
2.5°	3556.4
5°	3501.6
7.5°	3428.0
10°	3352.7
12.5°	3279.1
15°	3212.4
17.5°	3149.1
20°	3080.6
22.5°	3003.6
25°	2912.9
27.5°	2788.0
30°	2613.4
32.5°	2368.7
35°	2017.8
37.5°	1583.1
40°	1168.9
42.5°	884.8
45°	730.8
47.5°	646.9
50°	585.3
52.5°	535.7
55°	492.9
57.5°	457.0
60°	426.2
62.5°	393.6
65°	349.1
67.5°	301.2
70°	253.3
72.5°	208.8
75°	166.0
77.5°	128.4
80°	94.1
82.5°	65.0
85°	37.7
87.5°	13.7
90°	0.0

(END OF REPORT)