

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: P246551

Luminaire Tested: **LD8B50D010 ER8B50835 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246551  
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 ER8B50835 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5611.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 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

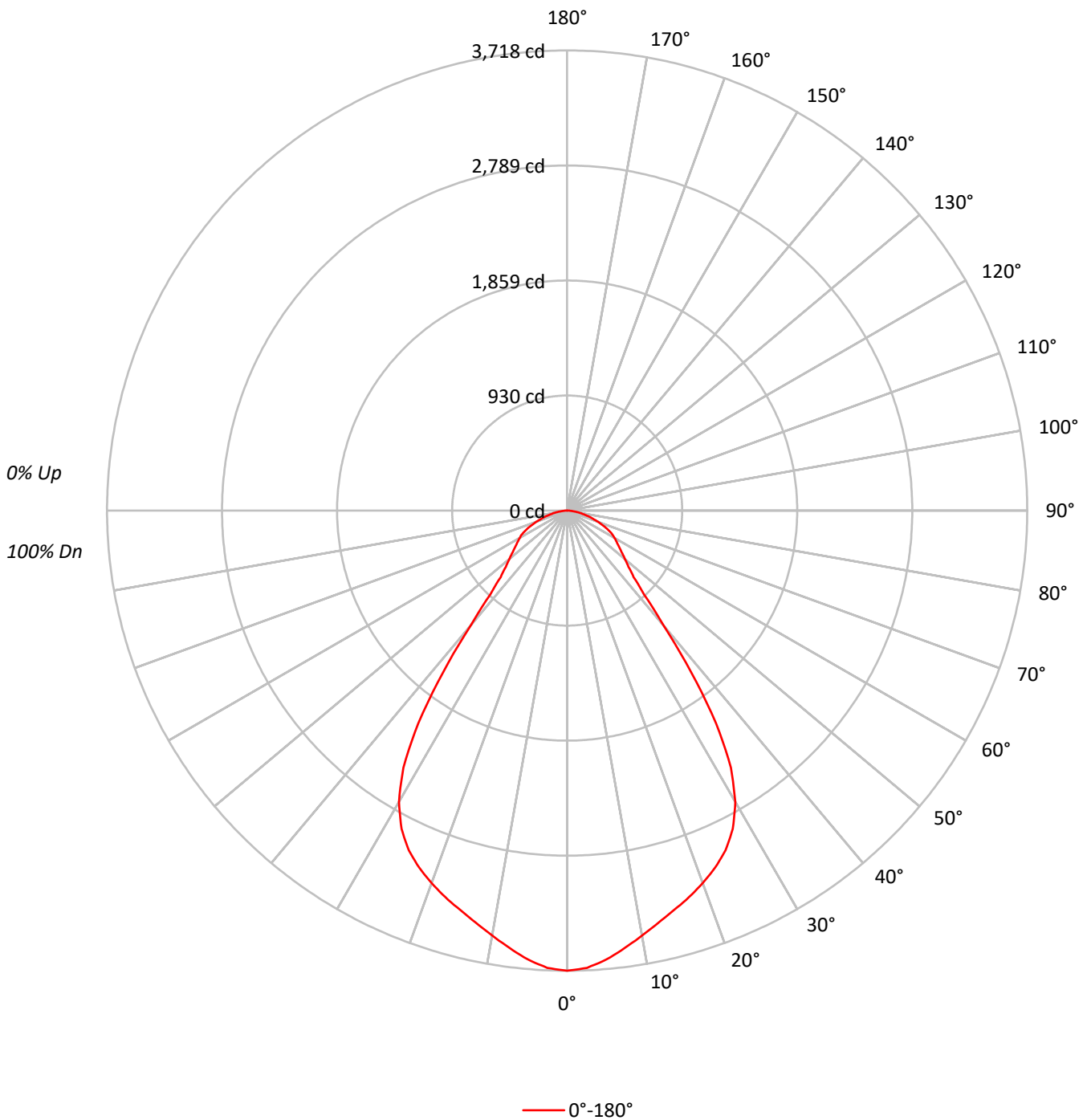
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246551

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246551

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBW0MW

**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°	114640
5°	112710
10°	109163
15°	106639
20°	105121
25°	103059
30°	96761
35°	78985
40°	48929
45°	33139
50°	29196
55°	27553
60°	27327
65°	26486
70°	23748
75°	20564
80°	17385
85°	13869



TEST NUMBER: P246551

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.5	6.1
10°-20°	943.5	16.8
20°-30°	1383.6	24.7
30°-40°	1264.7	22.5
40°-50°	626.1	11.2
50°-60°	463.0	8.3
60°-70°	355.9	6.3
70°-80°	185.5	3.3
80°-90°	46.2	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°	2669.5	47.6
0°-40°	3934.2	70.1
0°-60°	5023.4	89.5
0°-90°	5611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3718	
5°	3641	343
15°	3340	943
25°	3029	1384
35°	2098	1265
45°	760	626
55°	512	463
65°	363	356
75°	173	186
85°	39	46
90°	0	



TEST NUMBER: P246551

CATALOG NUMBER: LD8B50D010 ER8B50835 8LBW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3717.7
2.5°	3698.1
5°	3641.2
7.5°	3564.6
10°	3486.3
12.5°	3409.8
15°	3340.4
17.5°	3274.6
20°	3203.4
22.5°	3123.3
25°	3029.0
27.5°	2899.0
30°	2717.5
32.5°	2463.0
35°	2098.2
37.5°	1646.2
40°	1215.5
42.5°	920.1
45°	759.9
47.5°	672.7
50°	608.6
52.5°	557.0
55°	512.5
57.5°	475.2
60°	443.1
62.5°	409.3
65°	363.0
67.5°	313.2
70°	263.4
72.5°	217.1
75°	172.6
77.5°	133.5
80°	97.9
82.5°	67.6
85°	39.2
87.5°	14.2
90°	0.0

(END OF REPORT)