

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: P251419

Luminaire Tested: **LD8B70D010 ER8B70830 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251419  
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: LD8B70D010 ER8B70830 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: 7378.9 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

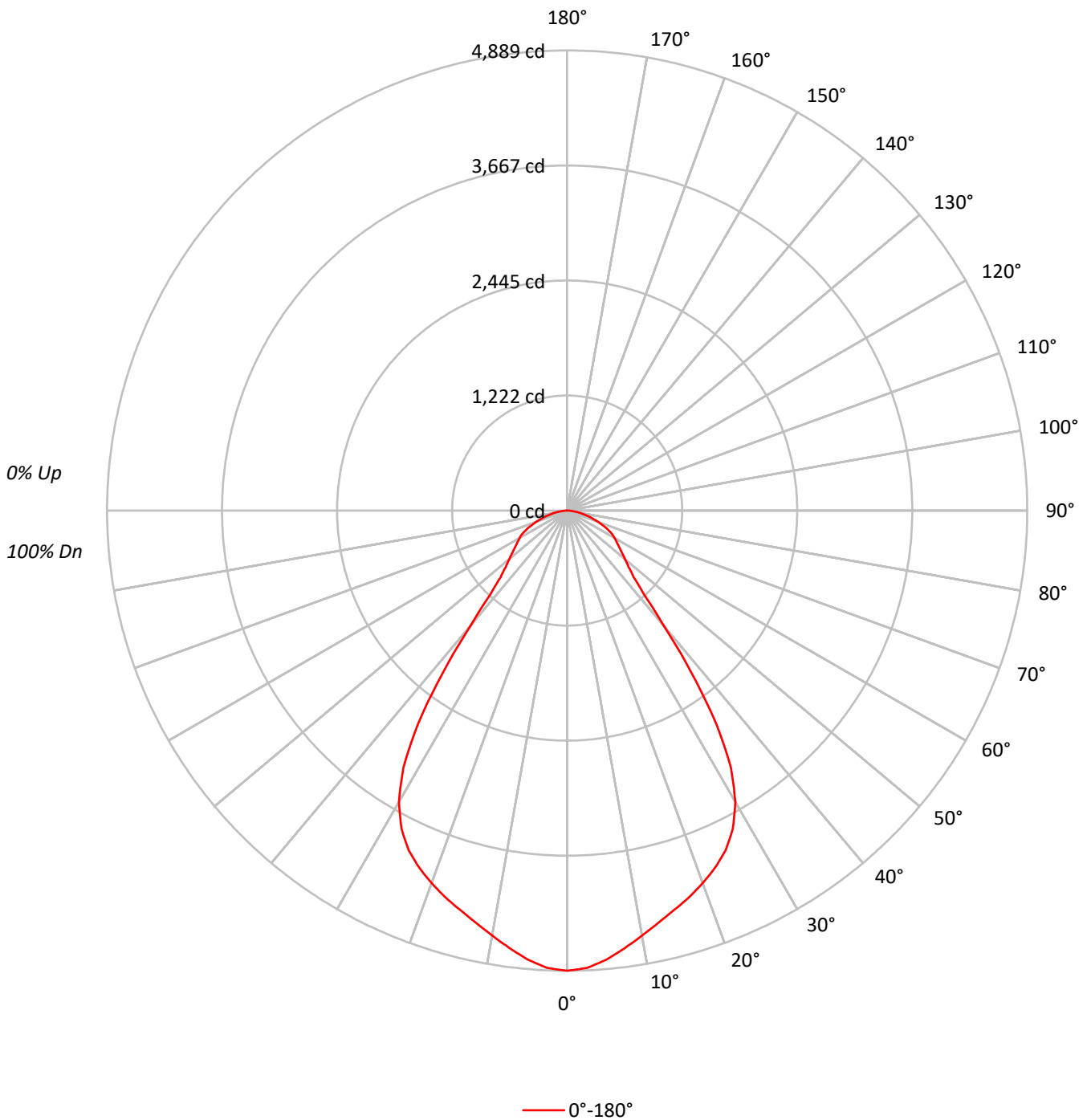
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251419

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P251419

CATALOG NUMBER: LD8B70D010 ER8B70830 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°	150762
5°	148224
10°	143562
15°	140239
20°	138241
25°	135532
30°	127251
35°	103872
40°	64346
45°	43583
50°	38397
55°	36235
60°	35943
65°	34833
70°	31231
75°	27045
80°	22854
85°	18221



TEST NUMBER: P251419

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.4	6.1
10°-20°	1240.7	16.8
20°-30°	1819.5	24.7
30°-40°	1663.2	22.5
40°-50°	823.4	11.2
50°-60°	608.9	8.3
60°-70°	468.0	6.3
70°-80°	243.9	3.3
80°-90°	60.8	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°	3510.7	47.6
0°-40°	5173.9	70.1
0°-60°	6606.2	89.5
0°-90°	7378.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7378.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4889	
5°	4788	450
15°	4393	1241
25°	3983	1820
35°	2759	1663
45°	999	823
55°	674	609
65°	477	468
75°	227	244
85°	52	61
90°	0	



TEST NUMBER: P251419

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4889.1
2.5°	4863.4
5°	4788.5
7.5°	4687.8
10°	4584.9
12.5°	4484.2
15°	4392.9
17.5°	4306.3
20°	4212.7
22.5°	4107.4
25°	3983.4
27.5°	3812.5
30°	3573.8
32.5°	3239.1
35°	2759.3
37.5°	2164.9
40°	1598.5
42.5°	1210.0
45°	999.4
47.5°	884.7
50°	800.4
52.5°	732.5
55°	674.0
57.5°	624.9
60°	582.8
62.5°	538.3
65°	477.4
67.5°	411.9
70°	346.4
72.5°	285.5
75°	227.0
77.5°	175.5
80°	128.7
82.5°	88.9
85°	51.5
87.5°	18.7
90°	0.0

(END OF REPORT)