

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: P247747

Luminaire Tested: **LD8B90D010 ER8B90935 8LBS0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-88)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B90935 8LBS0MW  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8899.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

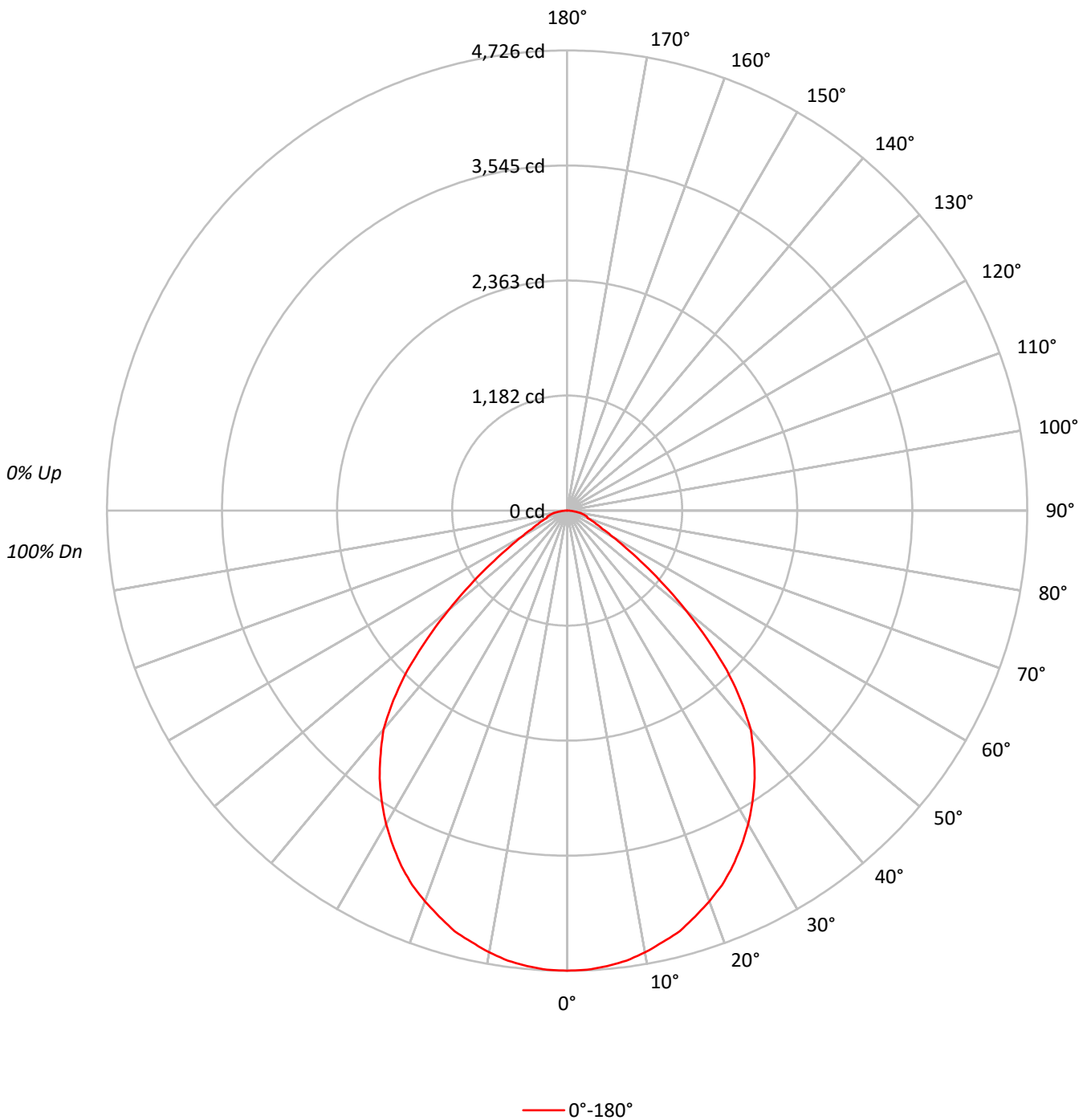
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96		97	95	94		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	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65		73	68	64		71	67	63	61
5	83	72	64	59	81	71	64	58	69	62	58		67	61	57		65	60	57	55
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	47		57	51	46		55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48	42	38	37
10	60	47	40	36	58	47	40	35	46	40	35		45	39	35		44	39	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	145717
5°	145351
10°	144264
15°	142761
20°	140128
25°	137022
30°	132418
35°	126402
40°	118037
45°	101112
50°	76027
55°	51530
60°	33525
65°	24596
70°	20088
75°	22768
80°	23884
85°	19353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.6	5.0
10°-20°	1258.0	14.1
20°-30°	1850.7	20.8
30°-40°	2090.4	23.5
40°-50°	1760.5	19.8
50°-60°	888.2	10.0
60°-70°	347.9	3.9
70°-80°	196.5	2.2
80°-90°	61.1	0.7
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°	3554.3	39.9
0°-40°	5644.8	63.4
0°-60°	8293.4	93.2
0°-90°	8899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8899.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4726	
5°	4696	446
15°	4472	1258
25°	4027	1851
35°	3358	2090
45°	2319	1760
55°	958	888
65°	337	348
75°	191	196
85°	55	61
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4725.5
2.5°	4720.7
5°	4695.7
7.5°	4663.0
10°	4607.3
12.5°	4538.2
15°	4471.9
17.5°	4371.1
20°	4270.2
22.5°	4160.7
25°	4027.2
27.5°	3876.4
30°	3718.9
32.5°	3542.2
35°	3357.8
37.5°	3146.5
40°	2932.3
42.5°	2640.3
45°	2318.6
47.5°	1949.7
50°	1584.8
52.5°	1255.3
55°	958.5
57.5°	722.3
60°	543.6
62.5°	414.9
65°	337.1
67.5°	274.7
70°	222.8
72.5°	215.1
75°	191.1
77.5°	159.4
80°	134.5
82.5°	85.5
85°	54.7
87.5°	17.3
90°	0.0

(END OF REPORT)