

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: P247663

Luminaire Tested: **LD8B90D010 ER8B909727 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B90D010 ER8B909727 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6098.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

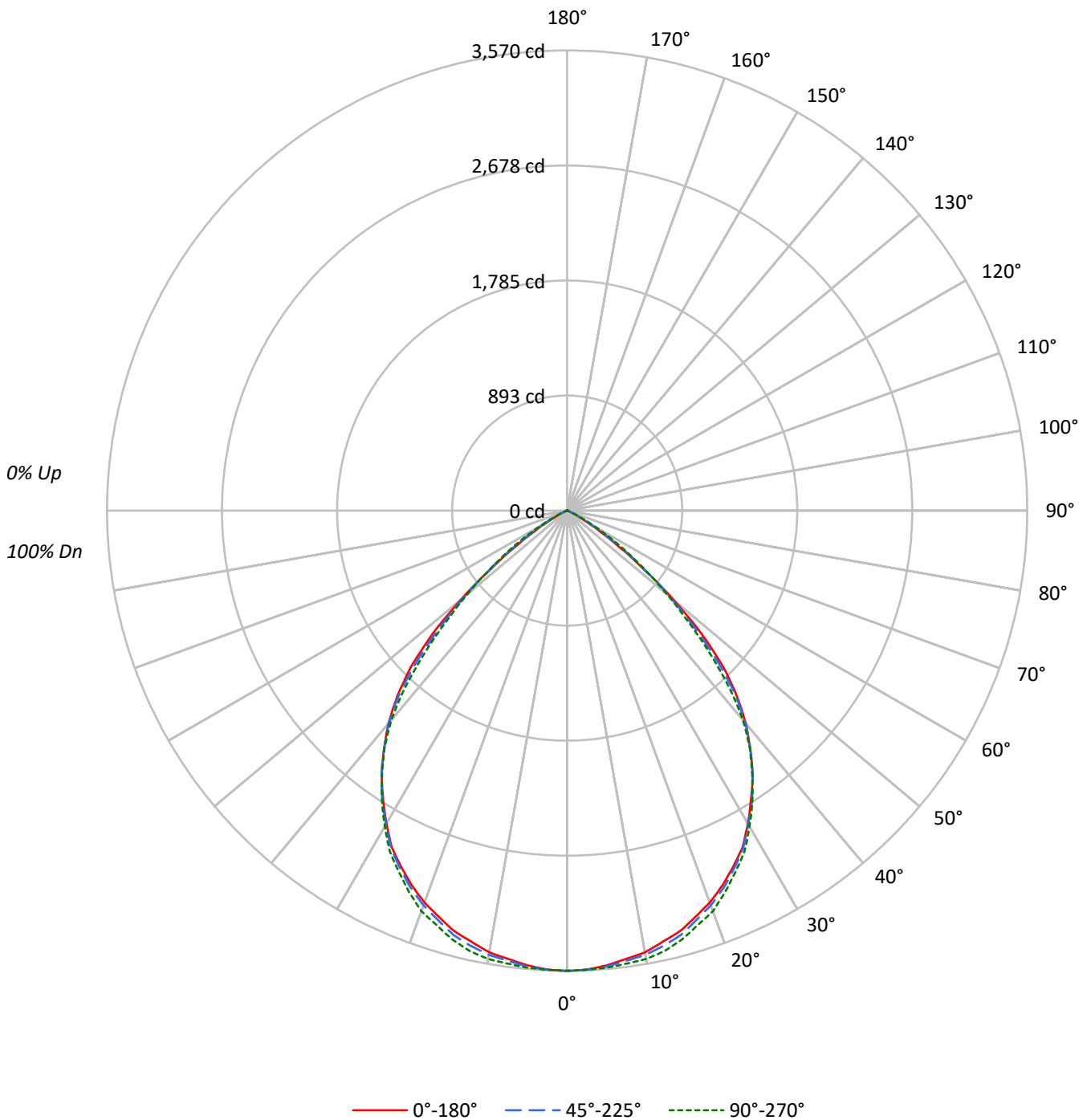
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.2	5.5
10°-20°	959.5	15.7
20°-30°	1409.6	23.1
30°-40°	1560.6	25.6
40°-50°	1243.7	20.4
50°-60°	509.6	8.4
60°-70°	75.0	1.2
70°-80°	1.1	0.0
80°-90°	1.5	0.0
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°	2706.4	44.4
0°-40°	4267.0	70.0
0°-60°	6020.4	98.7
0°-90°	6098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3570	3570	3570	3570	3570	
5°	3541	3547	3550	3556	3559	336
15°	3379	3382	3408	3440	3445	951
25°	3047	3044	3064	3082	3091	1401
35°	2509	2506	2513	2510	2502	1559
45°	1711	1696	1641	1580	1566	1284
55°	504	521	547	579	580	484
65°	48	50	59	64	63	63
75°	0	0	0	0	0	2
85°	0	0	0	3	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3570.5	3570.5	3570.5	3570.5	3570.5
2.5°	3564.2	3565.0	3565.0	3561.1	3565.8
5°	3540.7	3547.0	3550.1	3555.6	3558.7
7.5°	3507.8	3506.2	3522.7	3542.3	3544.6
10°	3480.3	3477.2	3499.1	3525.0	3532.1
12.5°	3426.2	3430.1	3458.3	3485.0	3499.1
15°	3379.1	3381.5	3408.2	3440.3	3445.0
17.5°	3306.2	3313.3	3331.3	3365.0	3371.3
20°	3234.8	3238.0	3258.4	3285.8	3306.2
22.5°	3147.8	3153.3	3169.0	3193.3	3203.5
25°	3047.4	3044.3	3063.9	3081.9	3091.3
27.5°	2945.5	2940.0	2954.9	2972.1	2980.8
30°	2804.3	2802.8	2811.4	2822.4	2829.4
32.5°	2656.1	2660.0	2668.7	2671.8	2674.1
35°	2508.7	2505.5	2512.6	2509.5	2502.4
37.5°	2333.8	2336.1	2336.1	2333.0	2329.9
40°	2155.8	2158.1	2153.4	2136.2	2123.6
42.5°	1947.2	1948.8	1924.4	1886.0	1860.1
45°	1711.1	1695.5	1641.3	1580.2	1566.1
47.5°	1413.9	1387.3	1330.8	1284.5	1268.1
50°	1081.4	1061.8	1043.0	1018.7	1014.0
52.5°	758.3	768.5	775.6	783.4	781.1
55°	503.5	520.7	547.4	578.7	579.5
57.5°	302.7	322.3	356.0	390.5	407.0
60°	178.0	185.9	210.2	236.0	243.9
62.5°	96.5	98.8	109.8	135.7	131.7
65°	47.8	50.2	58.8	64.3	62.7
67.5°	23.5	25.9	27.4	35.3	29.0
70°	5.5	1.6	3.1	3.9	1.6
72.5°	0.0	0.0	1.6	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0	3.1
80°	7.1	4.7	1.6	1.6	2.4
82.5°	2.4	0.8	2.4	0.8	0.0
85°	0.0	0.0	0.0	3.1	0.0
87.5°	3.9	0.8	0.8	2.4	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)