

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: P247666

Luminaire Tested: **LD8B80D010 ER8B809730 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247666  
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: LD8B80D010 ER8B809730 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5728.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 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

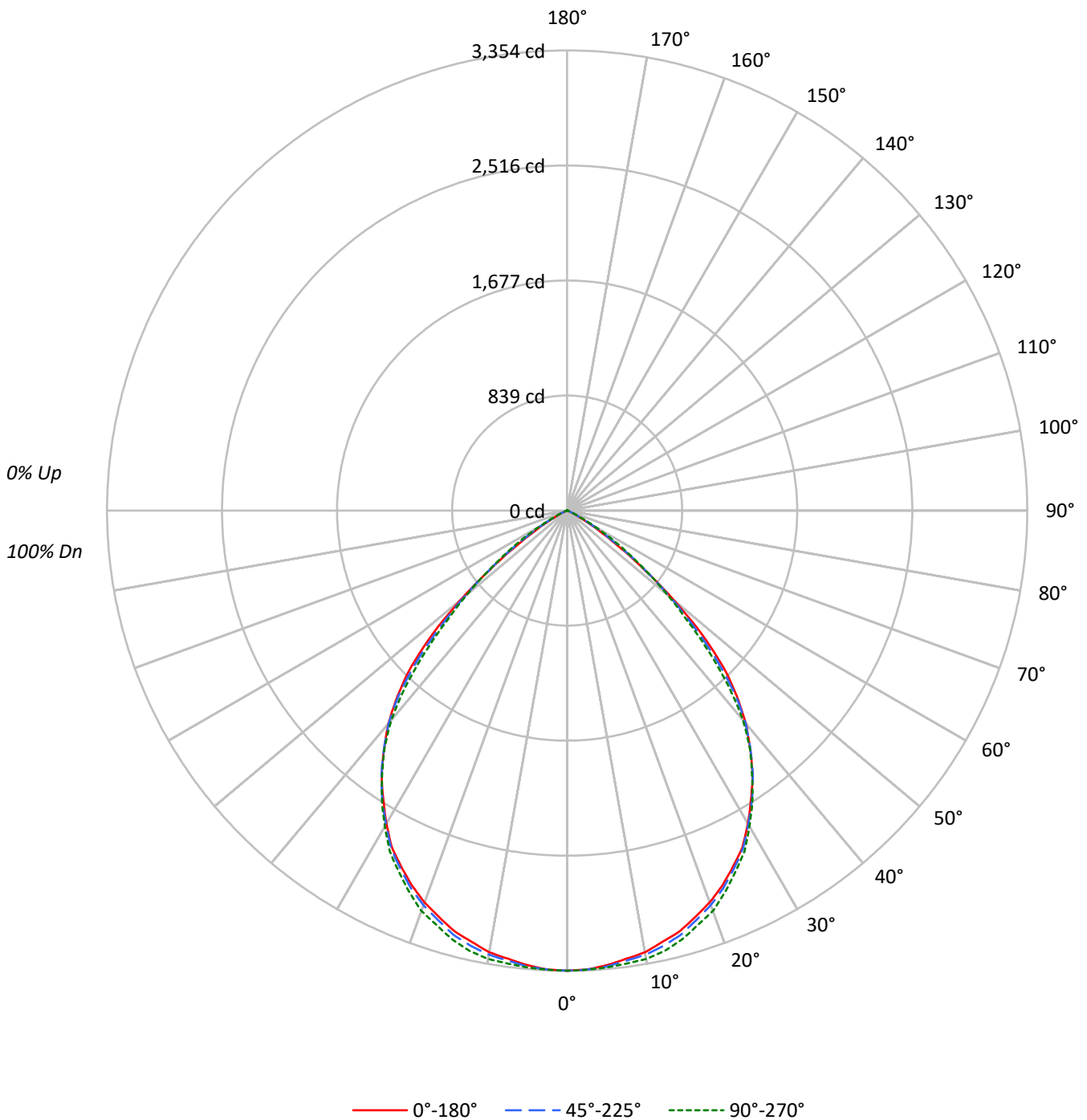
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	316.7	5.5
10°-20°	901.3	15.7
20°-30°	1324.1	23.1
30°-40°	1465.9	25.6
40°-50°	1168.3	20.4
50°-60°	478.7	8.4
60°-70°	70.5	1.2
70°-80°	1.0	0.0
80°-90°	1.4	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°	2542.2	44.4
0°-40°	4008.1	70.0
0°-60°	5655.1	98.7
0°-90°	5728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3354	3354	3354	3354	3354	
5°	3326	3332	3335	3340	3343	316
15°	3174	3176	3201	3232	3236	893
25°	2862	2860	2878	2895	2904	1316
35°	2356	2354	2360	2357	2351	1465
45°	1607	1593	1542	1484	1471	1206
55°	473	489	514	544	544	455
65°	45	47	55	60	59	60
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°	3353.8	3353.8	3353.8	3353.8	3353.8
2.5°	3348.0	3348.7	3348.7	3345.0	3349.4
5°	3325.9	3331.7	3334.7	3339.9	3342.8
7.5°	3294.9	3293.4	3308.9	3327.3	3329.5
10°	3269.1	3266.2	3286.8	3311.1	3317.8
12.5°	3218.3	3222.0	3248.5	3273.6	3286.8
15°	3174.1	3176.3	3201.4	3231.6	3236.0
17.5°	3105.6	3112.2	3129.2	3160.9	3166.7
20°	3038.6	3041.5	3060.7	3086.5	3105.6
22.5°	2956.8	2962.0	2976.7	2999.5	3009.1
25°	2862.5	2859.6	2878.0	2894.9	2903.8
27.5°	2766.8	2761.6	2775.6	2791.8	2799.9
30°	2634.2	2632.7	2640.8	2651.1	2657.7
32.5°	2494.9	2498.6	2506.7	2509.7	2511.9
35°	2356.5	2353.5	2360.1	2357.2	2350.6
37.5°	2192.2	2194.4	2194.4	2191.5	2188.5
40°	2025.0	2027.2	2022.8	2006.6	1994.8
42.5°	1829.0	1830.5	1807.7	1771.6	1747.3
45°	1607.3	1592.6	1541.8	1484.3	1471.0
47.5°	1328.1	1303.1	1250.1	1206.6	1191.1
50°	1015.8	997.4	979.7	956.9	952.5
52.5°	712.3	721.9	728.5	735.9	733.7
55°	472.9	489.1	514.2	543.6	544.4
57.5°	284.3	302.8	334.4	366.8	382.3
60°	167.2	174.6	197.4	221.7	229.1
62.5°	90.6	92.8	103.1	127.4	123.8
65°	44.9	47.1	55.2	60.4	58.9
67.5°	22.1	24.3	25.8	33.1	27.3
70°	5.2	1.5	2.9	3.7	1.5
72.5°	0.0	0.0	1.5	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0	2.9
80°	6.6	4.4	1.5	1.5	2.2
82.5°	2.2	0.7	2.2	0.7	0.0
85°	0.0	0.0	0.0	2.9	0.0
87.5°	3.7	0.7	0.7	2.2	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)