

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: P247522

Luminaire Tested: **LD8B80D010 ER8B809730 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B809730 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5592.0 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

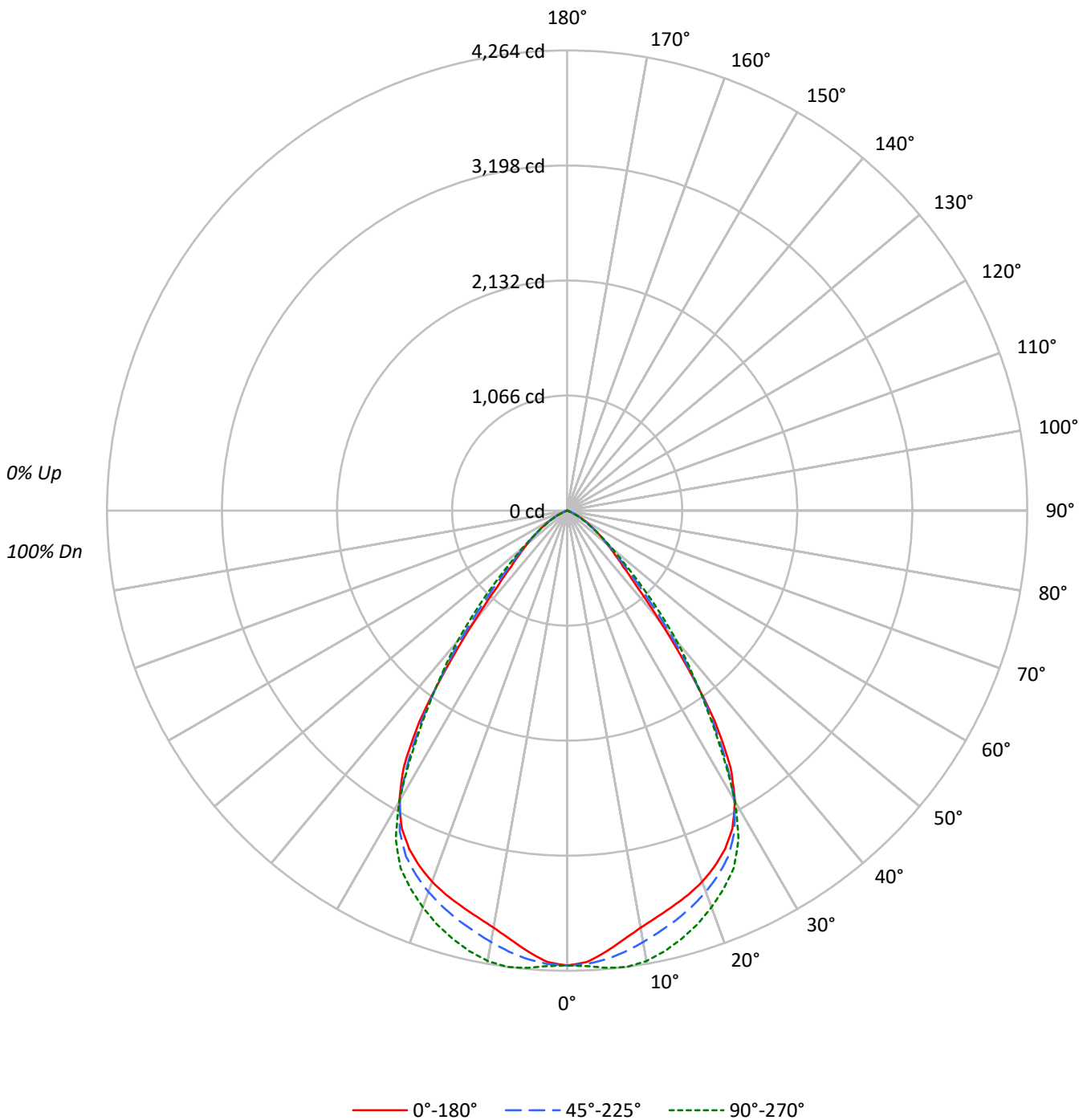
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84	84	84	84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58	58	58	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53	53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46	46	46	46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42	42	42	42			

**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°	395.3	7.1
10°-20°	1110.0	19.8
20°-30°	1613.3	28.9
30°-40°	1426.7	25.5
40°-50°	678.7	12.1
50°-60°	282.7	5.1
60°-70°	79.0	1.4
70°-80°	6.0	0.1
80°-90°	0.4	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°	3118.5	55.8
0°-40°	4545.2	81.3
0°-60°	5506.6	98.5
0°-90°	5592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4216	4216	4216	4216	4216	
5°	4104	4125	4174	4229	4253	386
15°	3794	3828	3923	4043	4105	1071
25°	3461	3477	3535	3613	3654	1582
35°	2390	2356	2309	2274	2274	1430
45°	733	759	825	902	937	610
55°	314	310	303	303	309	285
65°	79	77	73	70	69	86
75°	5	4	4	4	4	7
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4215.7	4215.7	4215.7	4215.7	4215.7
2.5°	4187.7	4191.4	4205.3	4218.6	4224.5
5°	4104.4	4125.1	4173.7	4228.9	4253.2
7.5°	4009.4	4040.3	4122.1	4219.3	4264.3
10°	3923.2	3962.3	4060.2	4180.3	4237.0
12.5°	3855.5	3891.5	3991.7	4117.0	4181.0
15°	3793.6	3828.2	3923.2	4042.6	4105.2
17.5°	3731.7	3764.8	3846.6	3957.8	4018.2
20°	3659.5	3686.0	3759.7	3857.7	3910.7
22.5°	3569.6	3594.0	3655.8	3742.8	3790.6
25°	3461.4	3476.8	3535.0	3613.1	3653.6
27.5°	3317.7	3321.4	3356.8	3407.6	3437.8
30°	3109.3	3107.1	3097.5	3095.3	3112.2
32.5°	2817.6	2785.1	2729.2	2702.6	2682.0
35°	2389.6	2355.7	2309.3	2273.9	2273.9
37.5°	1826.8	1856.3	1874.7	1896.8	1907.8
40°	1326.6	1370.1	1462.2	1557.9	1583.7
42.5°	964.2	1004.7	1104.2	1211.0	1241.9
45°	732.9	758.7	825.0	901.6	937.0
47.5°	592.2	599.6	632.8	678.4	695.4
50°	485.4	487.6	498.0	521.5	534.8
52.5°	392.6	391.1	394.1	400.7	406.6
55°	313.8	310.1	302.7	302.7	309.4
57.5°	242.3	237.2	229.1	225.4	223.2
60°	185.6	180.5	171.6	165.7	165.0
62.5°	133.3	128.9	120.1	114.9	113.4
65°	78.8	77.3	72.9	70.0	69.2
67.5°	36.8	35.4	31.7	30.2	29.5
70°	17.7	16.9	15.5	14.7	14.0
72.5°	8.8	8.8	7.4	7.4	7.4
75°	5.2	4.4	3.7	3.7	3.7
77.5°	2.9	2.2	2.2	2.2	2.2
80°	1.5	1.5	1.5	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)