

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: P249924

Luminaire Tested: **LD8B80D010 ER8B80940 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80940 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7248.0 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

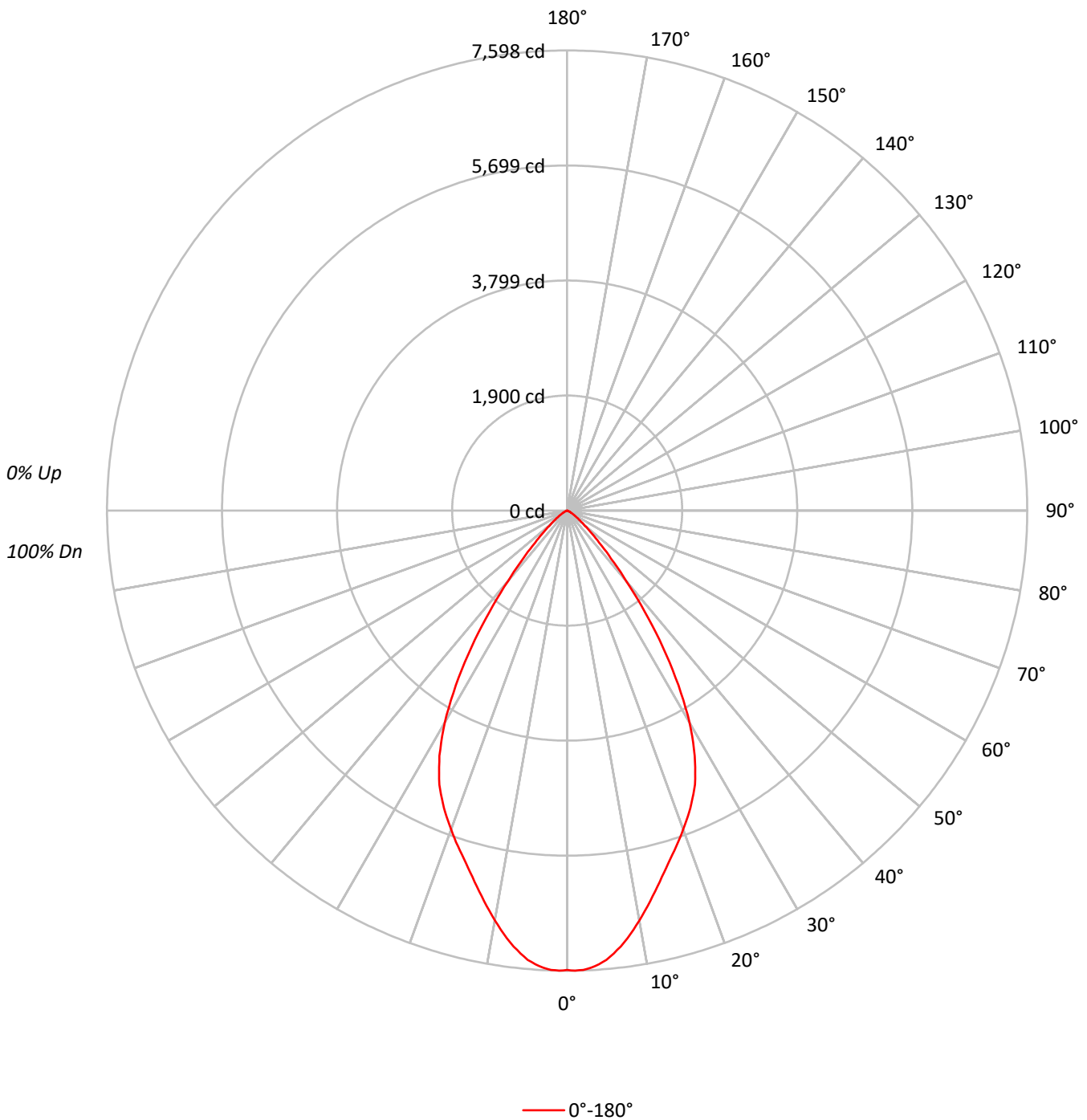
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

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

	0°
0°	233934
5°	230490
10°	215104
15°	197444
20°	183890
25°	169899
30°	144075
35°	103646
40°	61057
45°	32628
50°	17026
55°	9602
60°	5298
65°	3130
70°	1425
75°	810
80°	408
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.6	9.5
10°-20°	1740.1	24.0
20°-30°	2259.0	31.2
30°-40°	1705.1	23.5
40°-50°	623.9	8.6
50°-60°	174.4	2.4
60°-70°	45.8	0.6
70°-80°	7.7	0.1
80°-90°	0.3	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°	4690.8	64.7
0°-40°	6395.8	88.2
0°-60°	7194.2	99.3
0°-90°	7248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7586	
5°	7446	692
15°	6185	1740
25°	4994	2259
35°	2753	1705
45°	748	624
55°	179	174
65°	43	46
75°	7	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7586.3
1°	7597.6
2°	7588.6
3°	7559.2
4°	7509.5
5°	7446.2
6°	7353.5
7°	7251.8
8°	7134.2
9°	7005.4
10°	6869.7
11°	6734.1
12°	6594.0
13°	6451.5
14°	6315.9
15°	6184.8
16°	6060.5
17°	5940.7
18°	5832.2
19°	5719.1
20°	5603.8
22.5°	5316.8
25°	4993.5
27.5°	4566.3
30°	4046.3
32.5°	3420.2
35°	2753.3
37.5°	2102.3
40°	1516.8
42.5°	1073.8
45°	748.2
47.5°	526.7
50°	354.9
52.5°	260.0
55°	178.6
57.5°	128.9
60°	85.9
62.5°	63.3
65°	42.9
67.5°	29.4
70°	15.8
72.5°	11.3
75°	6.8
77.5°	2.3
80°	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)