

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: P249868

Luminaire Tested: **LD8B80D010 ER8B80827 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249868  
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 ER8B80827 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7634.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 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

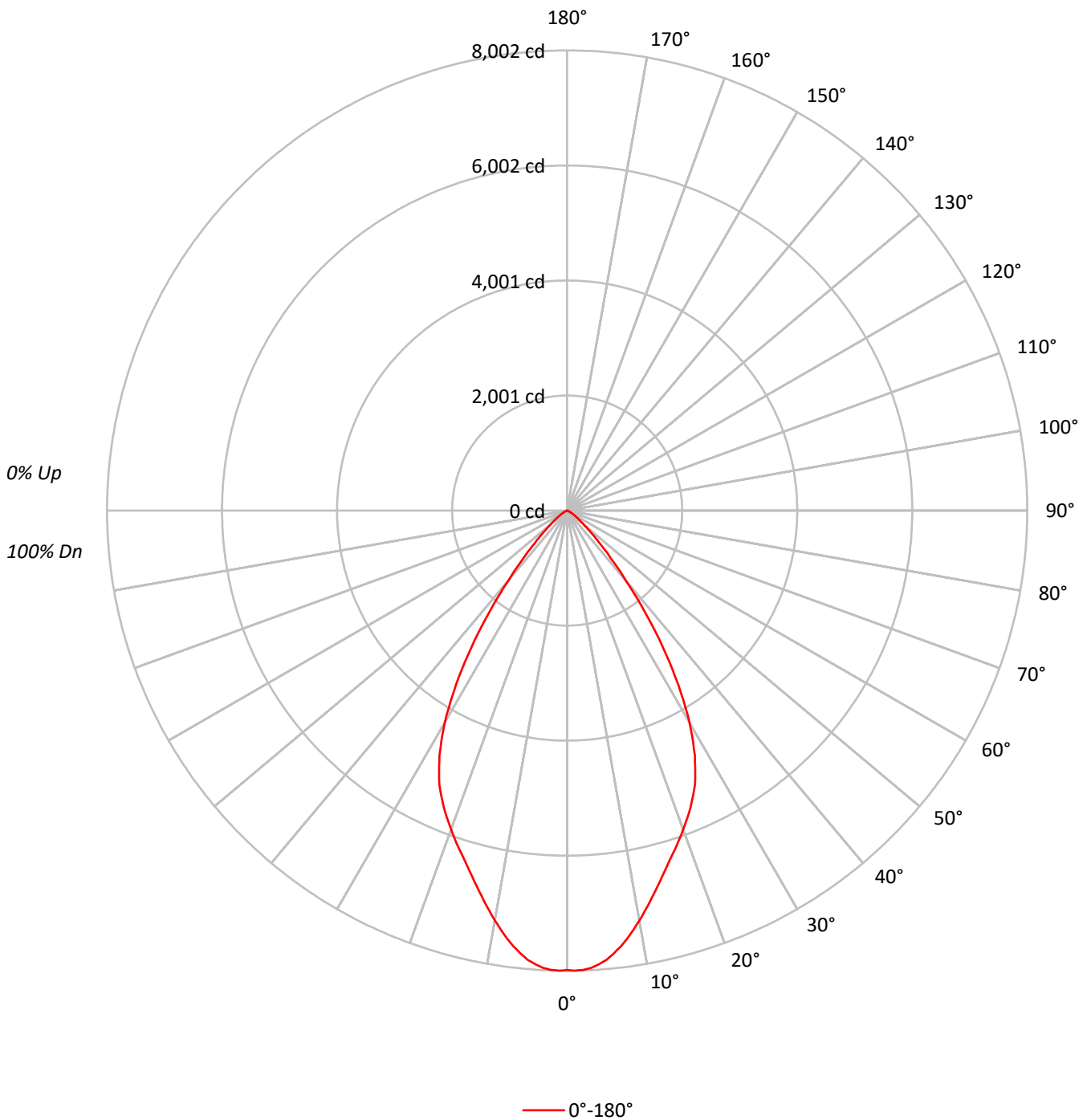
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	246394
5°	242764
10°	226561
15°	207960
20°	193686
25°	178946
30°	151749
35°	109168
40°	64310
45°	34368
50°	17932
55°	10113
60°	5581
65°	3298
70°	1506
75°	846
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.4	9.5
10°-20°	1832.8	24.0
20°-30°	2379.3	31.2
30°-40°	1795.9	23.5
40°-50°	657.1	8.6
50°-60°	183.7	2.4
60°-70°	48.3	0.6
70°-80°	8.1	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°	4940.6	64.7
0°-40°	6736.4	88.2
0°-60°	7577.3	99.3
0°-90°	7634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7634.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7990	
5°	7843	728
15°	6514	1833
25°	5259	2379
35°	2900	1796
45°	788	657
55°	188	184
65°	45	48
75°	7	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7990.4
1°	8002.3
2°	7992.7
3°	7961.8
4°	7909.4
5°	7842.7
6°	7745.1
7°	7638.0
8°	7514.2
9°	7378.5
10°	7235.6
11°	7092.7
12°	6945.1
13°	6795.1
14°	6652.3
15°	6514.2
16°	6383.2
17°	6257.0
18°	6142.8
19°	6023.7
20°	5902.3
22.5°	5599.9
25°	5259.4
27.5°	4809.4
30°	4261.8
32.5°	3602.3
35°	2900.0
37.5°	2214.3
40°	1597.6
42.5°	1130.9
45°	788.1
47.5°	554.8
50°	373.8
52.5°	273.8
55°	188.1
57.5°	135.7
60°	90.5
62.5°	66.7
65°	45.2
67.5°	31.0
70°	16.7
72.5°	11.9
75°	7.1
77.5°	2.4
80°	2.4



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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)