

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: P249931

Luminaire Tested: **LD8B80D010 ER8B80950 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249931  
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 ER8B80950 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7504.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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

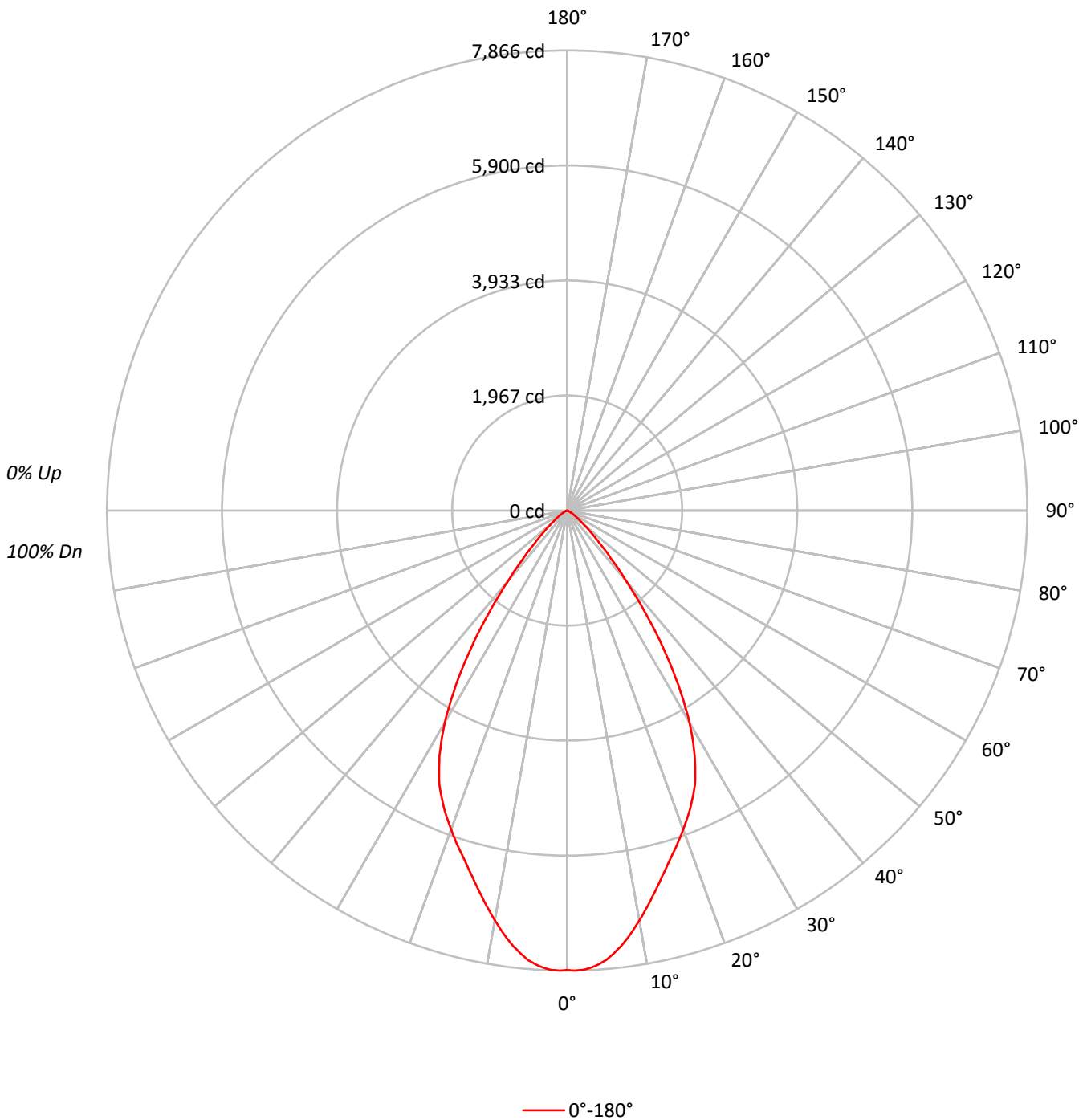
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	242198
5°	238631
10°	222704
15°	204420
20°	190388
25°	175901
30°	149167
35°	107309
40°	63215
45°	33784
50°	17625
55°	9940
60°	5483
65°	3247
70°	1479
75°	834
80°	408
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	716.0	9.5
10°-20°	1801.6	24.0
20°-30°	2338.8	31.2
30°-40°	1765.3	23.5
40°-50°	645.9	8.6
50°-60°	180.5	2.4
60°-70°	47.5	0.6
70°-80°	8.0	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°	4856.5	64.7
0°-40°	6621.7	88.2
0°-60°	7448.2	99.3
0°-90°	7504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7854	
5°	7709	716
15°	6403	1802
25°	5170	2339
35°	2851	1765
45°	775	646
55°	185	181
65°	44	47
75°	7	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7854.3
1°	7866.0
2°	7856.6
3°	7826.2
4°	7774.7
5°	7709.2
6°	7613.2
7°	7507.9
8°	7386.2
9°	7252.8
10°	7112.4
11°	6972.0
12°	6826.9
13°	6679.4
14°	6539.0
15°	6403.3
16°	6274.5
17°	6150.5
18°	6038.2
19°	5921.1
20°	5801.8
22.5°	5504.6
25°	5169.9
27.5°	4727.5
30°	4189.3
32.5°	3541.0
35°	2850.6
37.5°	2176.5
40°	1570.4
42.5°	1111.7
45°	774.7
47.5°	545.3
50°	367.4
52.5°	269.1
55°	184.9
57.5°	133.4
60°	88.9
62.5°	65.5
65°	44.5
67.5°	30.4
70°	16.4
72.5°	11.7
75°	7.0
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)