

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: P250977

Luminaire Tested: **LD8B70D010 ER8B70940 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 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: 6609.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

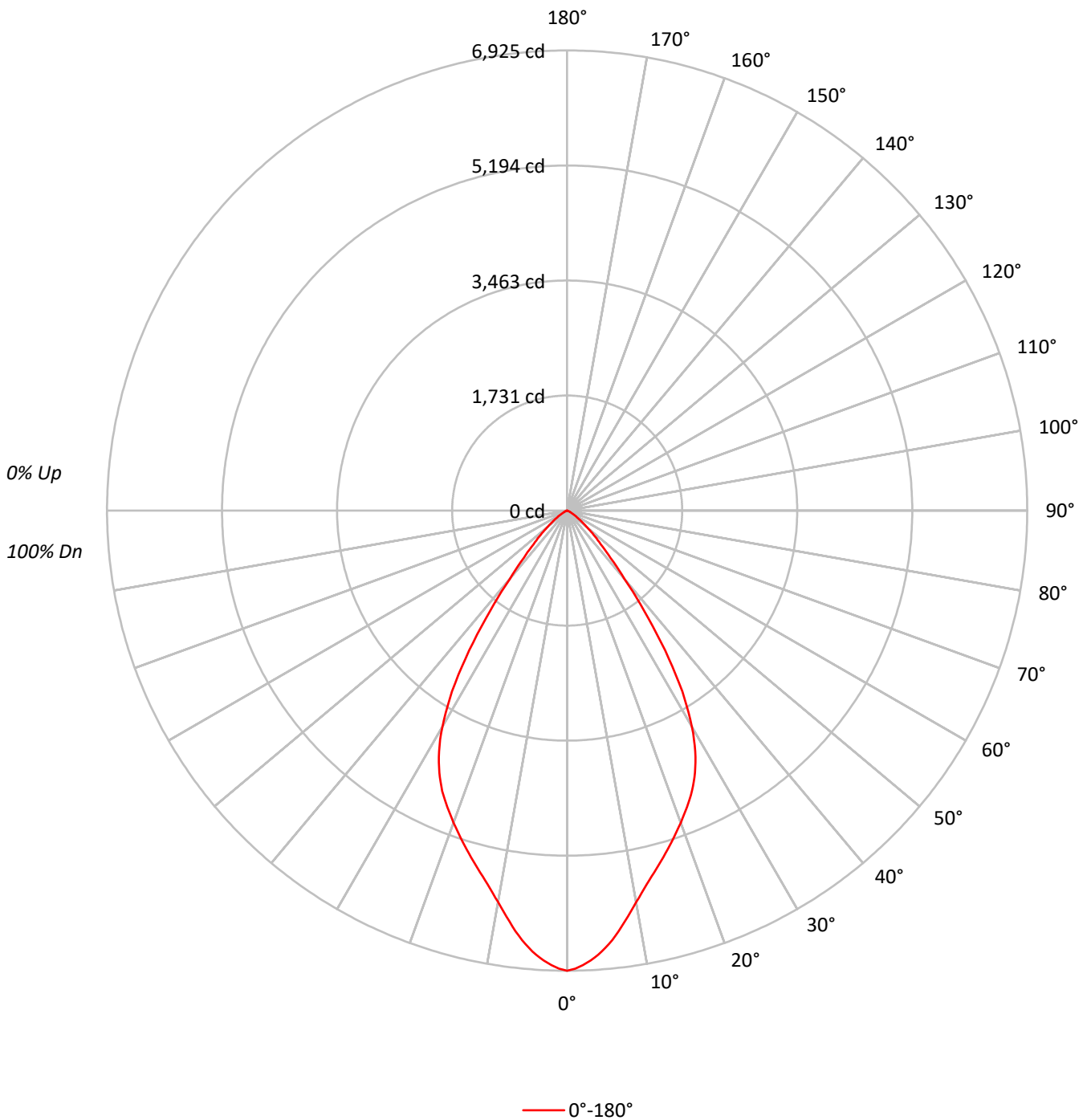
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	213554
5°	204495
10°	187380
15°	174360
20°	163991
25°	153432
30°	133806
35°	96708
40°	54218
45°	31194
50°	19088
55°	10865
60°	5649
65°	2882
70°	1569
75°	941
80°	568
85°	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.0	9.2
10°-20°	1535.4	23.2
20°-30°	2048.6	31.0
30°-40°	1579.1	23.9
40°-50°	588.8	8.9
50°-60°	192.5	2.9
60°-70°	44.4	0.7
70°-80°	8.9	0.1
80°-90°	1.3	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°	4194.0	63.5
0°-40°	5773.0	87.4
0°-60°	6554.4	99.2
0°-90°	6609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6925	
5°	6606	610
15°	5462	1535
25°	4510	2049
35°	2569	1579
45°	715	589
55°	202	193
65°	40	44
75°	8	9
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6925.4
1°	6895.4
2°	6844.8
3°	6780.1
4°	6701.1
5°	6606.4
6°	6499.0
7°	6375.9
8°	6244.8
9°	6109.0
10°	5984.3
11°	5864.3
12°	5752.2
13°	5649.5
14°	5554.8
15°	5461.7
16°	5366.9
17°	5275.3
18°	5180.6
19°	5087.4
20°	4997.4
21°	4904.3
22°	4814.3
23°	4719.5
24°	4620.1
25°	4509.5
26°	4388.0
27°	4253.7
28°	4105.3
29°	3939.5
30°	3757.9
32.5°	3225.8
35°	2569.0
37.5°	1902.7
40°	1346.9
42.5°	964.7
45°	715.3
47.5°	538.4
50°	397.9
52.5°	284.2
55°	202.1
57.5°	138.9
60°	91.6
62.5°	60.0
65°	39.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	26.8
70°	17.4
72.5°	11.1
75°	7.9
77.5°	4.7
80°	3.2
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)