

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: P250873

Luminaire Tested: **LD8B70D010 ER8B70850 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70850 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8596.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

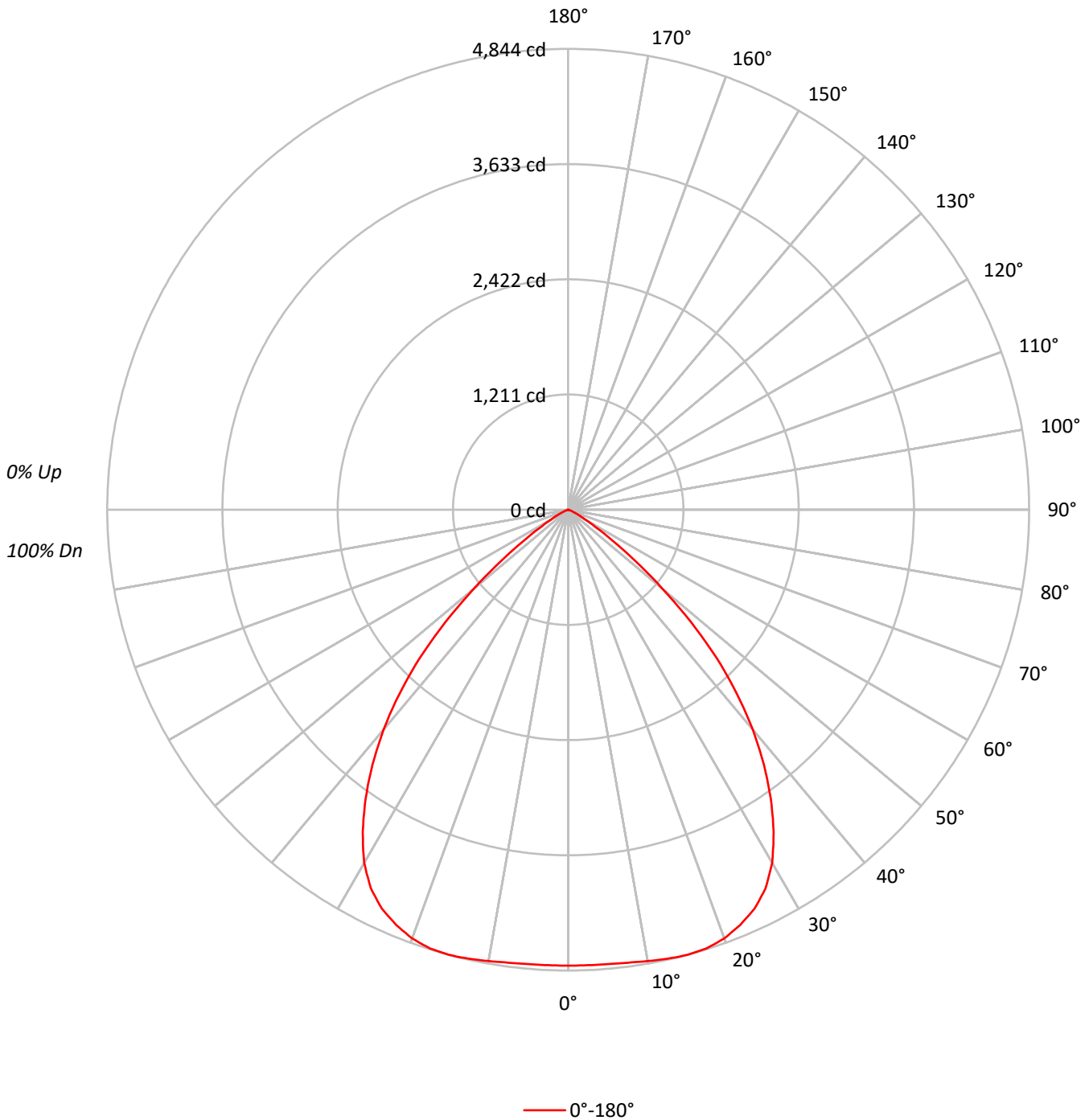
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49
8	71	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	50	43	39	49	43	39	48	43	39	37

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

	0°
0°	147789
5°	148431
10°	150842
15°	154656
20°	157356
25°	157532
30°	152657
35°	139769
40°	121474
45°	96119
50°	62331
55°	31149
60°	13075
65°	5757
70°	1776
75°	882
80°	870
85°	885



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.4	5.3
10°-20°	1369.0	15.9
20°-30°	2120.7	24.7
30°-40°	2303.1	26.8
40°-50°	1673.6	19.5
50°-60°	568.8	6.6
60°-70°	90.6	1.1
70°-80°	9.7	0.1
80°-90°	2.0	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°	3948.1	45.9
0°-40°	6251.2	72.7
0°-60°	8493.7	98.8
0°-90°	8596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8596.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4793	
5°	4795	458
15°	4844	1369
25°	4630	2121
35°	3713	2303
45°	2204	1674
55°	579	569
65°	79	91
75°	7	10
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4792.7
2.5°	4792.7
5°	4795.2
7.5°	4802.6
10°	4817.4
12.5°	4834.7
15°	4844.5
17.5°	4834.7
20°	4795.2
22.5°	4723.7
25°	4630.0
27.5°	4489.5
30°	4287.3
32.5°	4018.6
35°	3712.9
37.5°	3380.1
40°	3017.7
42.5°	2625.7
45°	2204.1
47.5°	1750.4
50°	1299.3
52.5°	890.0
55°	579.4
57.5°	352.6
60°	212.0
62.5°	130.7
65°	78.9
67.5°	44.4
70°	19.7
72.5°	12.3
75°	7.4
77.5°	4.9
80°	4.9
82.5°	2.5
85°	2.5
87.5°	0.0
90°	0.0

(END OF REPORT)