

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: P250865

Luminaire Tested: **LD8B70D010 ER8B70827 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250865  
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 ER8B70827 8LBSOLI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7962.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

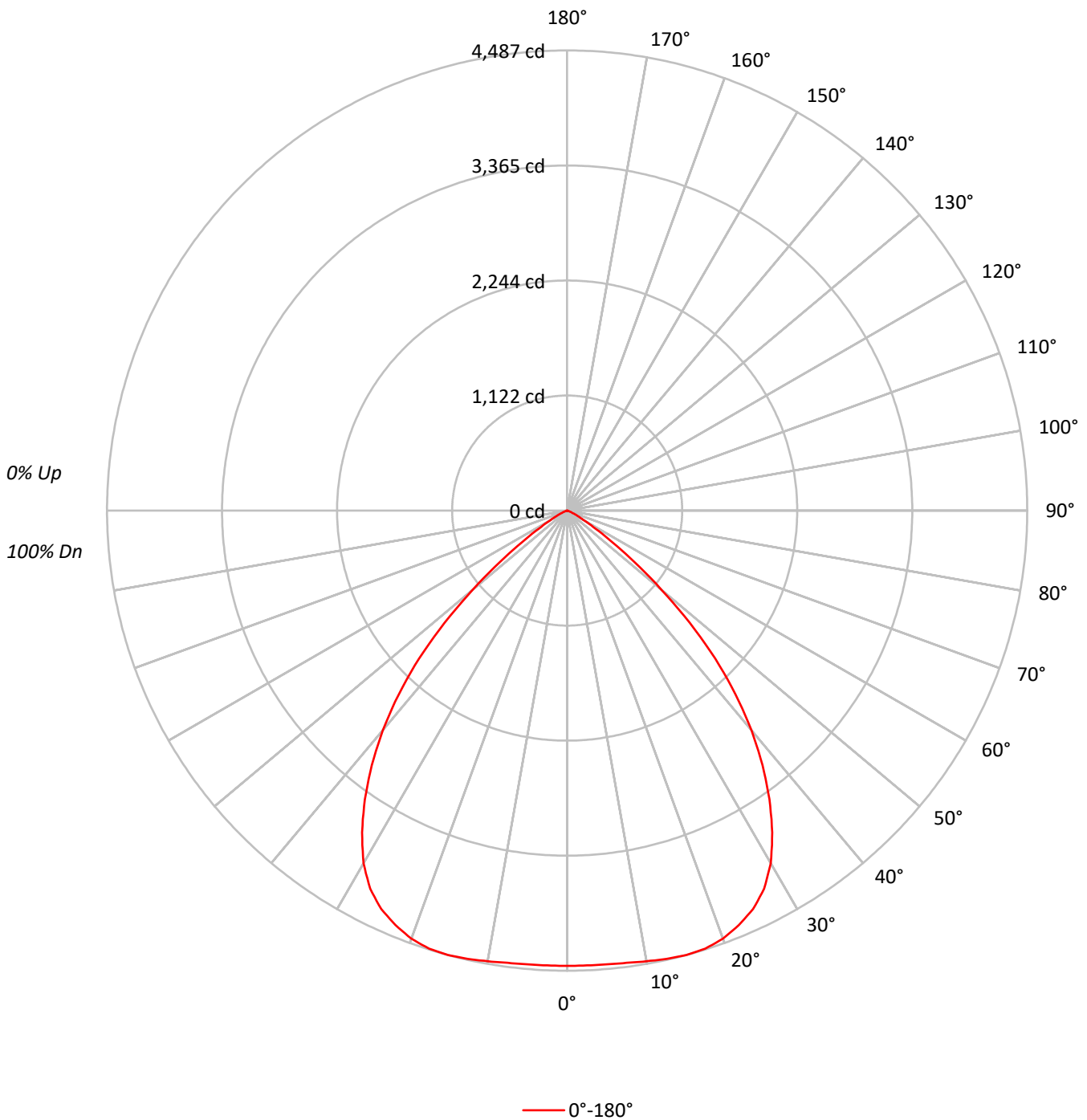
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	136892
5°	137483
10°	139717
15°	143250
20°	145749
25°	145912
30°	141398
35°	129462
40°	112514
45°	89028
50°	57730
55°	28848
60°	12113
65°	5334
70°	1650
75°	822
80°	817
85°	814



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.6	5.3
10°-20°	1268.0	15.9
20°-30°	1964.3	24.7
30°-40°	2133.3	26.8
40°-50°	1550.2	19.5
50°-60°	526.9	6.6
60°-70°	83.9	1.1
70°-80°	9.0	0.1
80°-90°	1.9	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°	3656.9	45.9
0°-40°	5790.2	72.7
0°-60°	7867.2	98.8
0°-90°	7962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4439	
5°	4442	425
15°	4487	1268
25°	4288	1964
35°	3439	2133
45°	2042	1550
55°	537	527
65°	73	84
75°	7	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4439.3
2.5°	4439.3
5°	4441.5
7.5°	4448.4
10°	4462.1
12.5°	4478.1
15°	4487.2
17.5°	4478.1
20°	4441.5
22.5°	4375.3
25°	4288.5
27.5°	4158.4
30°	3971.1
32.5°	3722.2
35°	3439.1
37.5°	3130.8
40°	2795.1
42.5°	2432.0
45°	2041.5
47.5°	1621.3
50°	1203.4
52.5°	824.4
55°	536.6
57.5°	326.6
60°	196.4
62.5°	121.0
65°	73.1
67.5°	41.1
70°	18.3
72.5°	11.4
75°	6.9
77.5°	4.6
80°	4.6
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0

(END OF REPORT)