

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: P250835

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70950 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6619.0 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

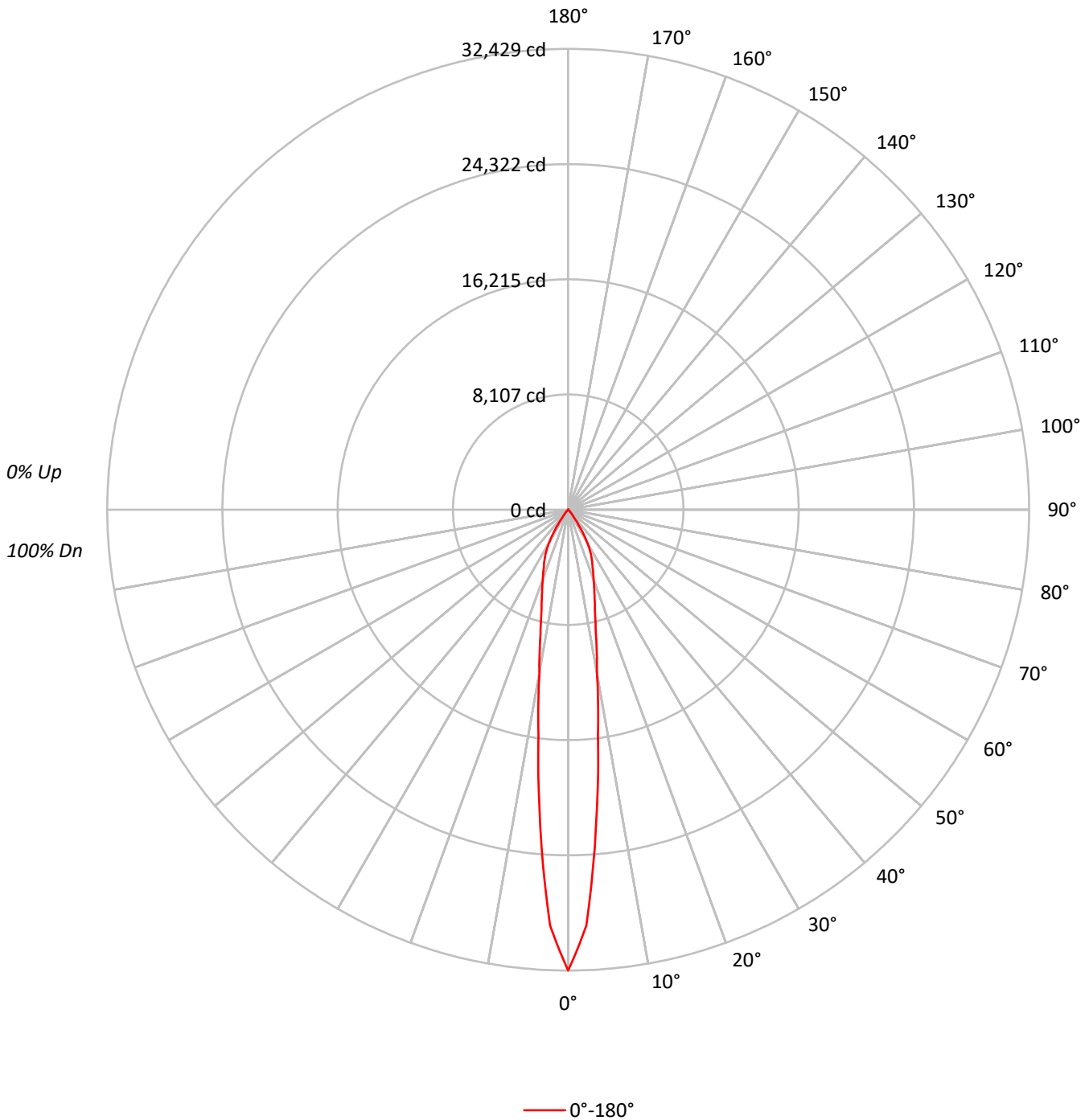
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64

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

	0°
0°	999982
5°	694539
10°	365483
15°	231242
20°	171847
25°	135103
30°	97270
35°	41744
40°	14548
45°	5578
50°	1290
55°	484
60°	0
65°	657
70°	198
75°	536
80°	799
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1798.8	27.2
10°-20°	2090.0	31.6
20°-30°	1803.8	27.3
30°-40°	782.6	11.8
40°-50°	122.7	1.9
50°-60°	8.9	0.1
60°-70°	4.7	0.1
70°-80°	5.0	0.1
80°-90°	2.4	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°	5692.7	86.0
0°-40°	6475.3	97.8
0°-60°	6606.8	99.8
0°-90°	6619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	32429	
5°	22438	###
15°	7244	2090
25°	3971	1804
35°	1109	783
45°	128	123
55°	9	9
65°	9	5
75°	4	5
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	32428.7
2.5°	29283.9
5°	22437.7
7.5°	16002.2
10°	11672.3
12.5°	8956.2
15°	7243.5
17.5°	6092.0
20°	5236.8
22.5°	4507.3
25°	3970.8
27.5°	3405.2
30°	2731.8
32.5°	1899.0
35°	1108.9
37.5°	619.5
40°	361.4
42.5°	224.5
45°	127.9
47.5°	103.3
50°	26.9
52.5°	13.5
55°	9.0
57.5°	4.5
60°	0.0
62.5°	2.2
65°	9.0
67.5°	6.7
70°	2.2
72.5°	11.2
75°	4.5
77.5°	0.0
80°	4.5
82.5°	2.2
85°	0.0
87.5°	4.5
90°	0.0

(END OF REPORT)