

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: P250881

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250881  
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: LSR8B70D010 EC8B70940 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7559.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

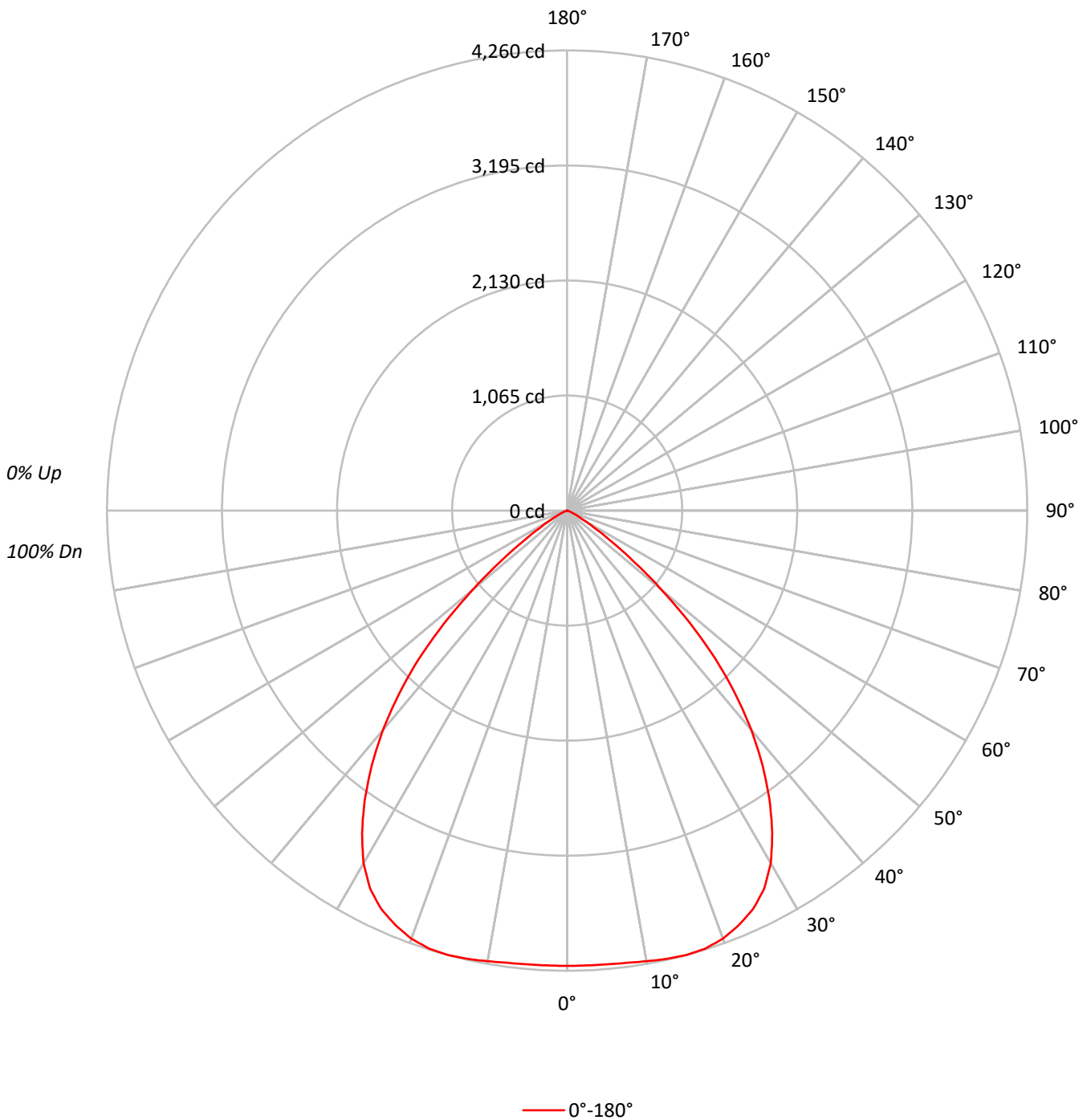
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	129963
5°	130524
10°	132644
15°	136000
20°	138372
25°	138529
30°	134241
35°	122908
40°	106818
45°	84523
50°	54809
55°	27391
60°	11496
65°	5064
70°	1560
75°	774
80°	764
85°	778



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.1	5.3
10°-20°	1203.8	15.9
20°-30°	1864.9	24.7
30°-40°	2025.3	26.8
40°-50°	1471.7	19.5
50°-60°	500.2	6.6
60°-70°	79.7	1.1
70°-80°	8.5	0.1
80°-90°	1.8	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°	3471.8	45.9
0°-40°	5497.1	72.7
0°-60°	7469.0	98.8
0°-90°	7559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4215	
5°	4217	403
15°	4260	1204
25°	4072	1865
35°	3265	2025
45°	1938	1472
55°	510	500
65°	69	80
75°	6	9
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4214.6
2.5°	4214.6
5°	4216.7
7.5°	4223.2
10°	4236.2
12.5°	4251.4
15°	4260.1
17.5°	4251.4
20°	4216.7
22.5°	4153.9
25°	4071.5
27.5°	3947.9
30°	3770.1
32.5°	3533.8
35°	3265.0
37.5°	2972.3
40°	2653.6
42.5°	2308.9
45°	1938.2
47.5°	1539.3
50°	1142.5
52.5°	782.6
55°	509.5
57.5°	310.0
60°	186.4
62.5°	114.9
65°	69.4
67.5°	39.0
70°	17.3
72.5°	10.8
75°	6.5
77.5°	4.3
80°	4.3
82.5°	2.2
85°	2.2
87.5°	0.0
90°	0.0

(END OF REPORT)