

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: P250871

Luminaire Tested: **LSR8B70D010 EC8B70840 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250871  
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 EC8B70840 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8431.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

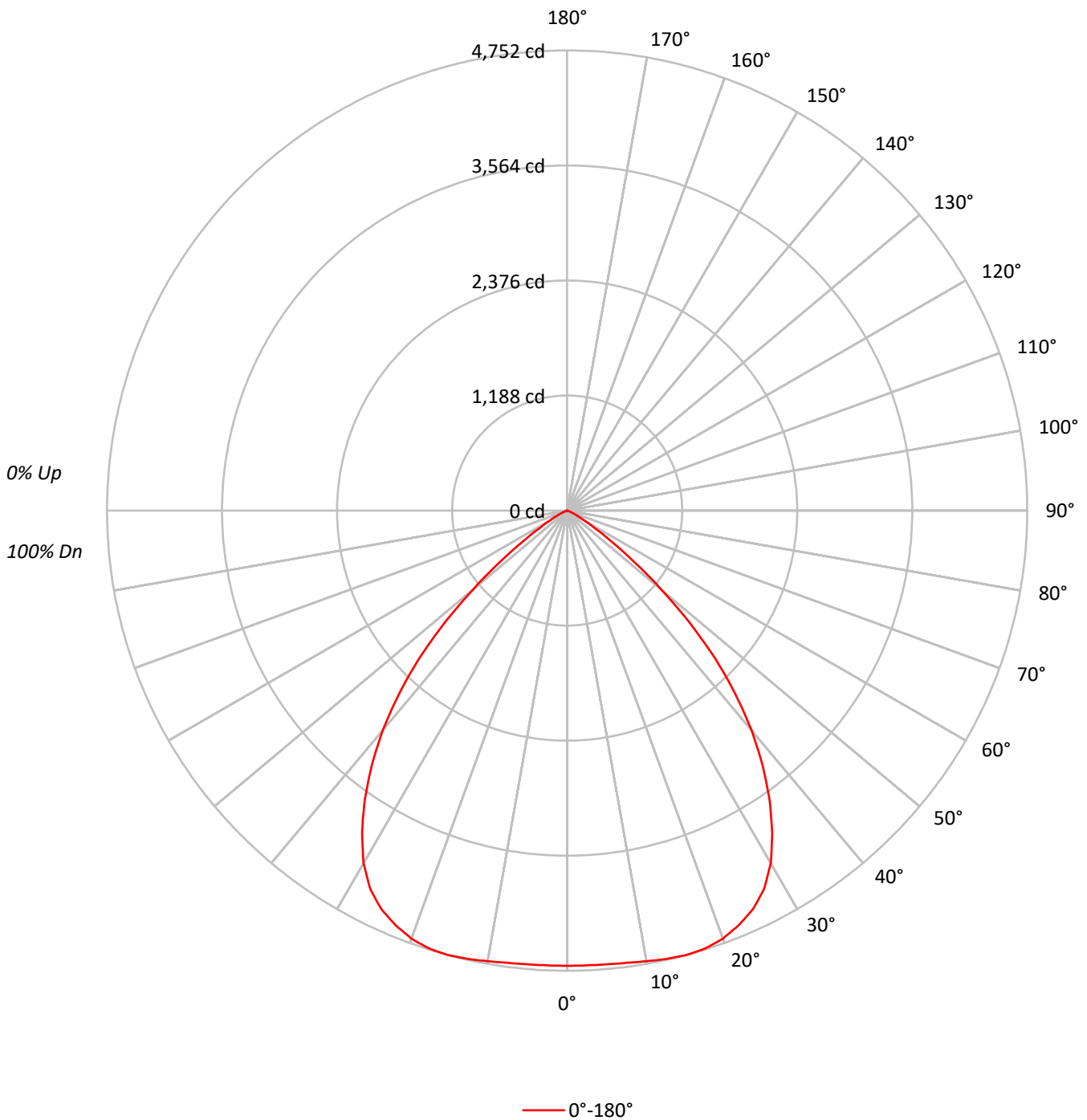
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	144952
5°	145583
10°	147946
15°	151687
20°	154337
25°	154510
30°	149726
35°	137085
40°	119140
45°	94274
50°	61132
55°	30547
60°	12828
65°	5647
70°	1740
75°	870
80°	852
85°	849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.6	5.3
10°-20°	1342.7	15.9
20°-30°	2080.0	24.7
30°-40°	2258.9	26.8
40°-50°	1641.5	19.5
50°-60°	557.9	6.6
60°-70°	88.9	1.1
70°-80°	9.5	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°	3872.3	45.9
0°-40°	6131.2	72.7
0°-60°	8330.6	98.8
0°-90°	8431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8431.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4701	
5°	4703	450
15°	4752	1343
25°	4541	2080
35°	3642	2259
45°	2162	1641
55°	568	558
65°	77	89
75°	7	10
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4700.7
2.5°	4700.7
5°	4703.2
7.5°	4710.4
10°	4724.9
12.5°	4741.9
15°	4751.5
17.5°	4741.9
20°	4703.2
22.5°	4633.0
25°	4541.2
27.5°	4403.3
30°	4205.0
32.5°	3941.5
35°	3641.6
37.5°	3315.2
40°	2959.7
42.5°	2575.3
45°	2161.8
47.5°	1716.8
50°	1274.3
52.5°	872.9
55°	568.2
57.5°	345.8
60°	208.0
62.5°	128.2
65°	77.4
67.5°	43.5
70°	19.3
72.5°	12.1
75°	7.3
77.5°	4.8
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0

(END OF REPORT)