

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: P251477

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70940 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6720.1 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

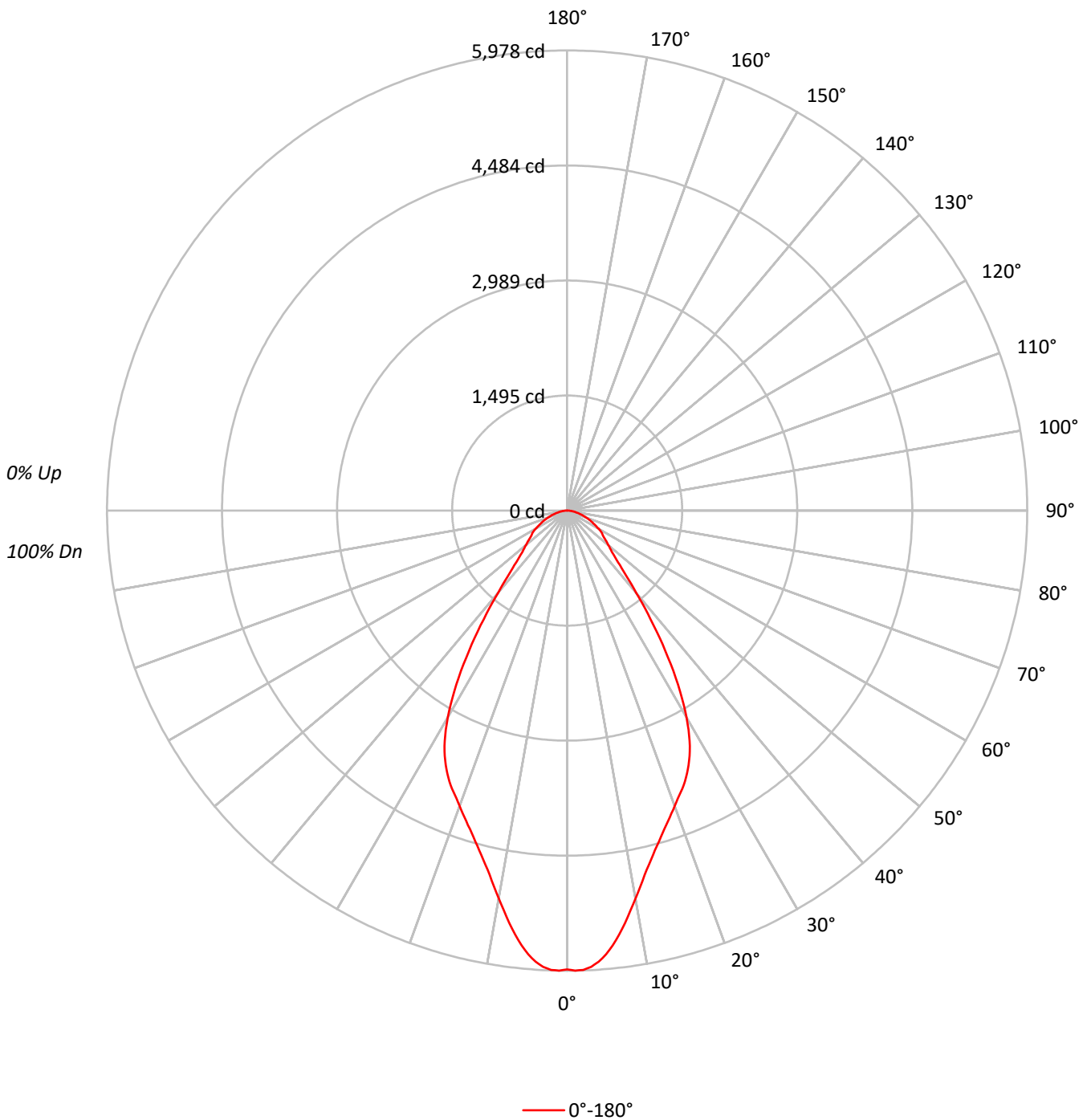
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	183821
5°	179162
10°	160167
15°	143933
20°	134037
25°	126277
30°	110406
35°	83657
40°	56186
45°	39601
50°	33586
55°	30628
60°	29023
65°	26107
70°	23487
75°	21124
80°	18593
85°	17938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.8	7.9
10°-20°	1271.5	18.9
20°-30°	1684.9	25.1
30°-40°	1381.6	20.6
40°-50°	736.0	11.0
50°-60°	518.0	7.7
60°-70°	357.2	5.3
70°-80°	186.0	2.8
80°-90°	55.1	0.8
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°	3486.1	51.9
0°-40°	4867.8	72.4
0°-60°	6121.8	91.1
0°-90°	6720.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6720.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5961	
5°	5788	530
15°	4509	1271
25°	3711	1685
35°	2222	1382
45°	908	736
55°	570	518
65°	358	357
75°	177	186
85°	51	55
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5961.2
1°	5978.1
2°	5970.9
3°	5935.5
4°	5875.0
5°	5788.0
6°	5679.2
7°	5548.6
8°	5408.5
9°	5259.3
10°	5115.2
11°	4977.3
12°	4837.2
13°	4720.4
14°	4609.7
15°	4508.6
16°	4413.3
17°	4325.4
18°	4244.0
19°	4162.6
20°	4084.6
21°	4008.7
22°	3942.5
23°	3874.8
24°	3795.2
25°	3711.4
26°	3616.3
27°	3509.2
28°	3388.4
29°	3254.5
30°	3100.7
31°	2939.5
32°	2770.3
33°	2589.8
34°	2408.5
35°	2222.3
37.5°	1780.7
40°	1395.8
42.5°	1102.3
45°	908.1
47.5°	779.9
50°	700.1
52.5°	630.2
55°	569.7
57.5°	532.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	470.6
62.5°	410.3
65°	357.8
67.5°	311.2
70°	260.5
72.5°	217.5
75°	177.3
77.5°	128.2
80°	104.7
82.5°	75.8
85°	50.7
87.5°	23.5
90°	0.0

(END OF REPORT)