

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: P250965

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70835 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7420.0 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

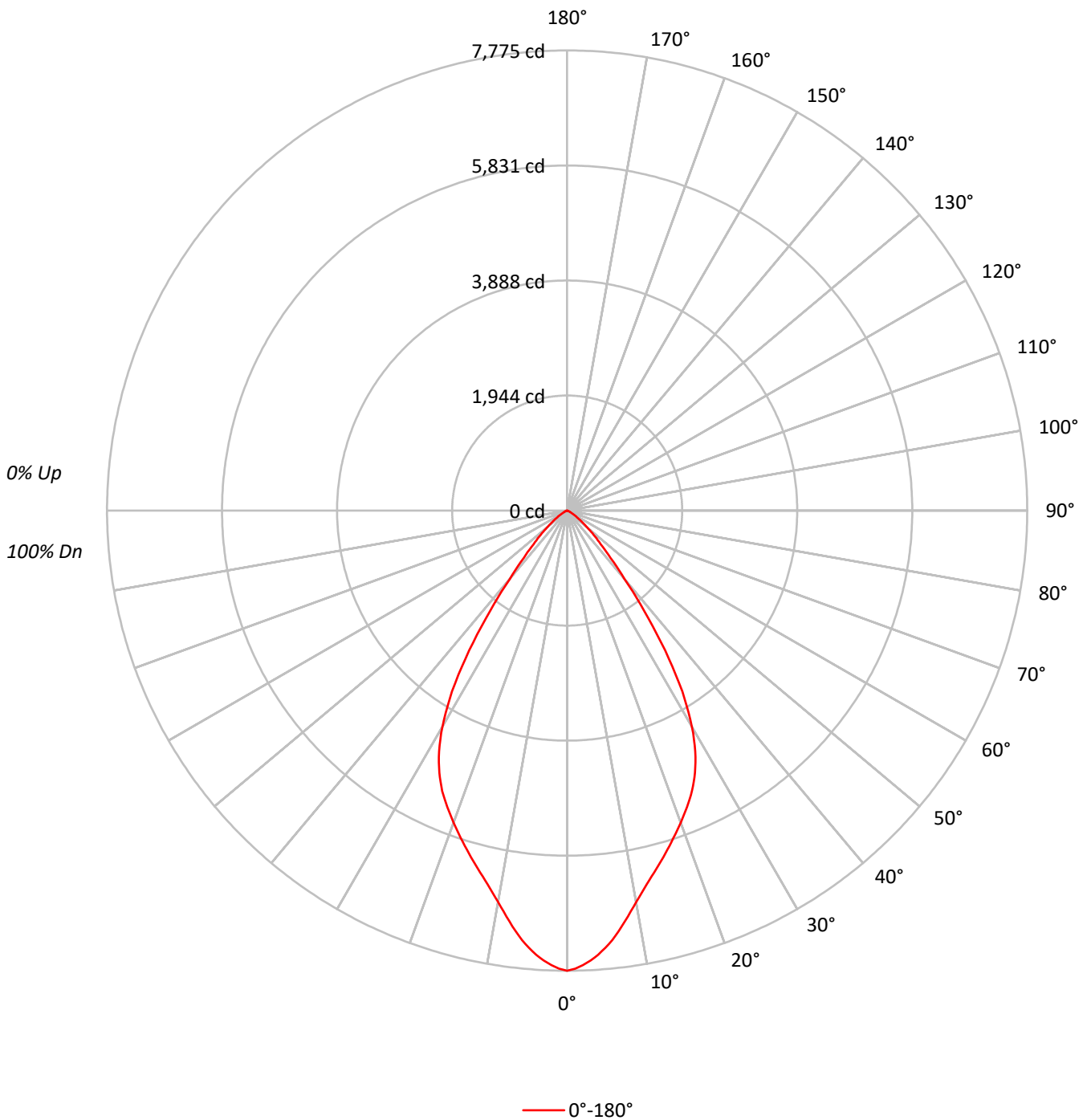
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

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

	0°
0°	239759
5°	229590
10°	210373
15°	195755
20°	184117
25°	172261
30°	150228
35°	108573
40°	60868
45°	35018
50°	21429
55°	12198
60°	6340
65°	3232
70°	1758
75°	1060
80°	622
85°	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.8	9.2
10°-20°	1723.8	23.2
20°-30°	2300.0	31.0
30°-40°	1772.8	23.9
40°-50°	661.0	8.9
50°-60°	216.2	2.9
60°-70°	49.9	0.7
70°-80°	10.0	0.1
80°-90°	1.5	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°	4708.6	63.5
0°-40°	6481.5	87.4
0°-60°	7358.6	99.2
0°-90°	7420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7775	
5°	7417	685
15°	6132	1724
25°	5063	2300
35°	2884	1773
45°	803	661
55°	227	216
65°	44	50
75°	9	10
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7775.2
1°	7741.5
2°	7684.8
3°	7612.1
4°	7523.4
5°	7417.1
6°	7296.5
7°	7158.3
8°	7011.1
9°	6858.7
10°	6718.6
11°	6583.9
12°	6458.0
13°	6342.8
14°	6236.4
15°	6131.9
16°	6025.5
17°	5922.7
18°	5816.3
19°	5711.7
20°	5610.7
21°	5506.1
22°	5405.0
23°	5298.7
24°	5187.0
25°	5062.9
26°	4926.4
27°	4775.7
28°	4609.1
29°	4422.9
30°	4219.1
32.5°	3621.7
35°	2884.2
37.5°	2136.1
40°	1512.1
42.5°	1083.1
45°	803.0
47.5°	604.5
50°	446.7
52.5°	319.1
55°	226.9
57.5°	156.0
60°	102.8
62.5°	67.4
65°	44.3



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	30.1
70°	19.5
72.5°	12.4
75°	8.9
77.5°	5.3
80°	3.5
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)