

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: P250771

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80950 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7702.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

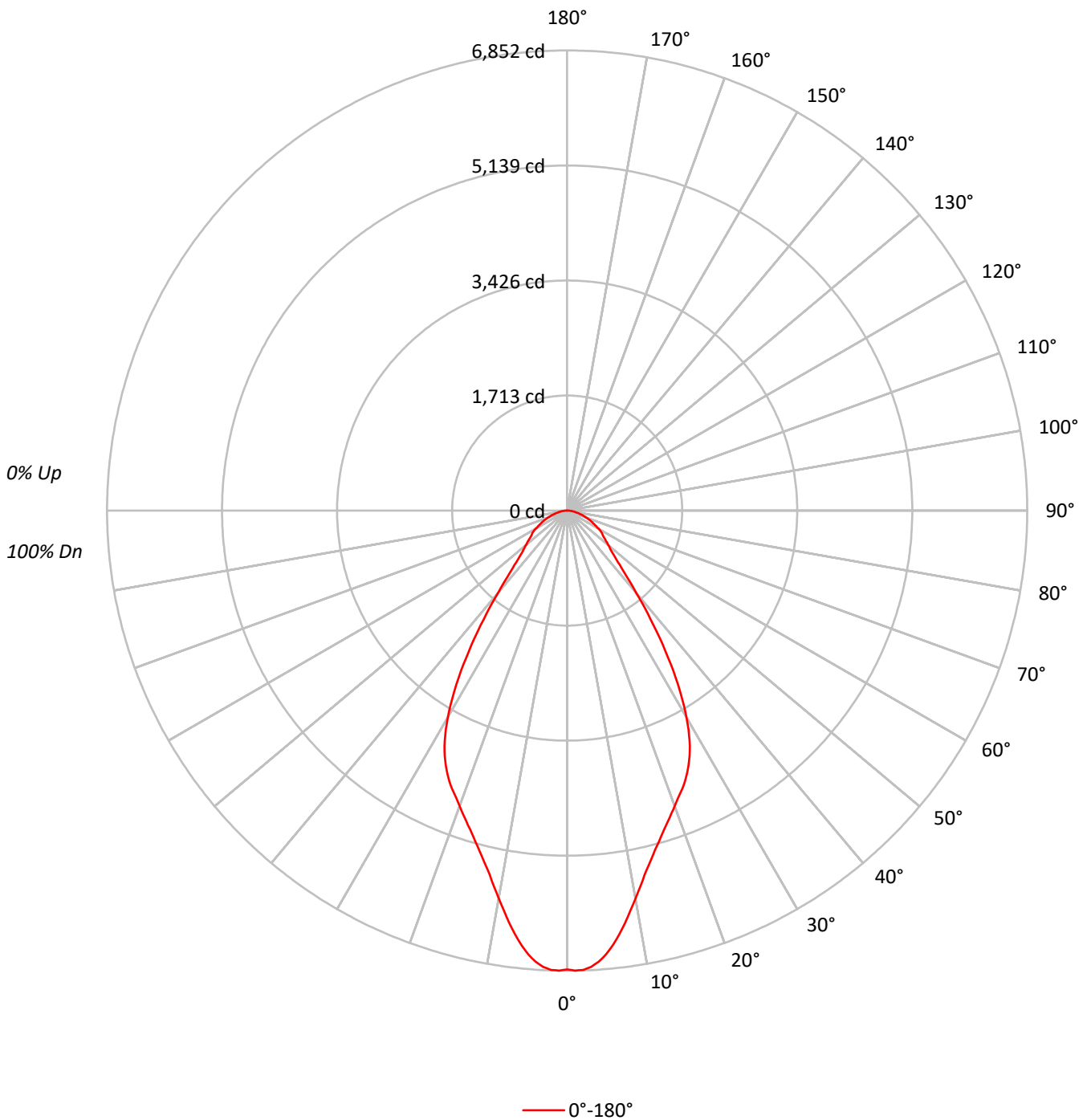
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

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

	0°
0°	210677
5°	205340
10°	183573
15°	164968
20°	153631
25°	144735
30°	126553
35°	95880
40°	64402
45°	45380
50°	38484
55°	35101
60°	33254
65°	29916
70°	26922
75°	24162
80°	21363
85°	20521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.2	7.9
10°-20°	1457.3	18.9
20°-30°	1931.2	25.1
30°-40°	1583.6	20.6
40°-50°	843.4	11.0
50°-60°	593.6	7.7
60°-70°	409.4	5.3
70°-80°	213.2	2.8
80°-90°	63.1	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°	3995.7	51.9
0°-40°	5579.3	72.4
0°-60°	7016.4	91.1
0°-90°	7702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6832	
5°	6634	607
15°	5168	1457
25°	4254	1931
35°	2547	1584
45°	1041	843
55°	653	594
65°	410	409
75°	203	213
85°	58	63
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6832.1
1°	6852.1
2°	6843.2
3°	6803.1
4°	6734.0
5°	6633.7
6°	6509.0
7°	6359.7
8°	6199.2
9°	6027.6
10°	5862.7
11°	5704.5
12°	5544.1
13°	5410.4
14°	5283.4
15°	5167.5
16°	5058.3
17°	4958.0
18°	4864.4
19°	4770.9
20°	4681.7
21°	4594.8
22°	4519.1
23°	4441.0
24°	4349.7
25°	4253.9
26°	4144.7
27°	4022.1
28°	3884.0
29°	3730.2
30°	3554.2
31°	3369.2
32°	3175.4
33°	2968.1
34°	2760.9
35°	2547.0
37.5°	2041.1
40°	1599.9
42.5°	1263.5
45°	1040.6
47.5°	893.6
50°	802.2
52.5°	722.0
55°	652.9
57.5°	610.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	539.2
62.5°	470.2
65°	410.0
67.5°	356.5
70°	298.6
72.5°	249.6
75°	202.8
77.5°	147.1
80°	120.3
82.5°	86.9
85°	58.0
87.5°	26.7
90°	0.0

(END OF REPORT)