

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: P249918

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90935 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7816.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

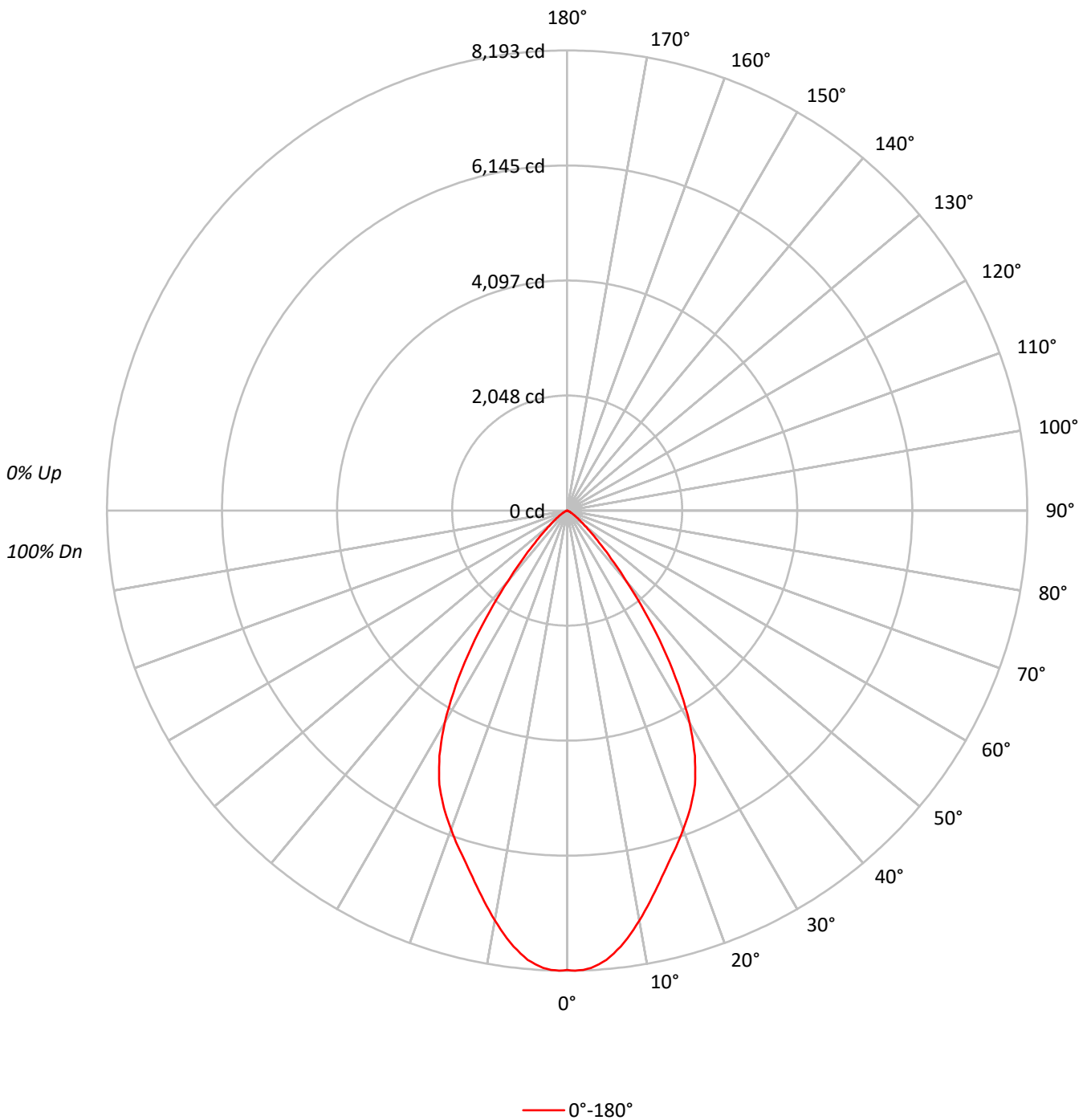
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

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

	0°
0°	252266
5°	248552
10°	231963
15°	212918
20°	198303
25°	183213
30°	155366
35°	111769
40°	65843
45°	35188
50°	18359
55°	10354
60°	5711
65°	3378
70°	1542
75°	870
80°	426
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.8	9.5
10°-20°	1876.5	24.0
20°-30°	2436.1	31.2
30°-40°	1838.7	23.5
40°-50°	672.8	8.6
50°-60°	188.1	2.4
60°-70°	49.4	0.6
70°-80°	8.3	0.1
80°-90°	0.3	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°	5058.4	64.7
0°-40°	6897.0	88.2
0°-60°	7757.9	99.3
0°-90°	7816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8181	
5°	8030	746
15°	6670	1876
25°	5385	2436
35°	2969	1839
45°	807	673
55°	193	188
65°	46	49
75°	7	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8180.8
1°	8193.0
2°	8183.3
3°	8151.6
4°	8098.0
5°	8029.7
6°	7929.8
7°	7820.1
8°	7693.3
9°	7554.4
10°	7408.1
11°	7261.8
12°	7110.7
13°	6957.1
14°	6810.9
15°	6669.5
16°	6535.4
17°	6406.2
18°	6289.2
19°	6167.3
20°	6043.0
22.5°	5733.4
25°	5384.8
27.5°	4924.1
30°	4363.4
32.5°	3688.2
35°	2969.1
37.5°	2267.0
40°	1635.7
42.5°	1157.9
45°	806.9
47.5°	568.0
50°	382.7
52.5°	280.3
55°	192.6
57.5°	138.9
60°	92.6
62.5°	68.3
65°	46.3
67.5°	31.7
70°	17.1
72.5°	12.2
75°	7.3
77.5°	2.4
80°	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)