

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: P247755

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBS0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-88)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90950 8LBS0MW  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9623.0 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

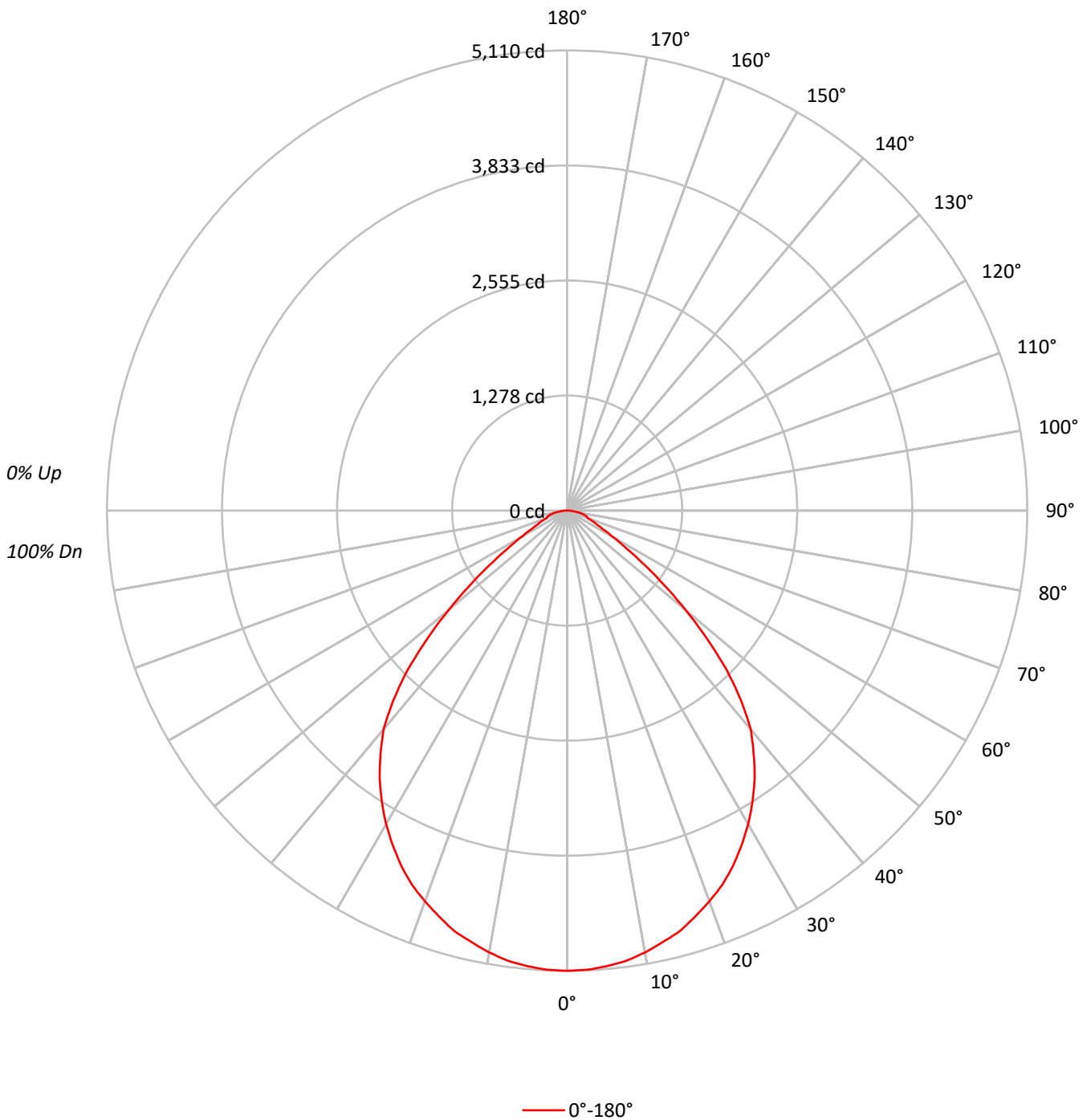
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	59	81	71	64	58	69	62	58	67	61	57	65	60	57	55
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	47	57	51	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	47	40	36	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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

	0°
0°	157570
5°	157176
10°	156003
15°	154375
20°	151528
25°	148172
30°	143192
35°	136682
40°	127637
45°	109337
50°	82211
55°	55724
60°	36251
65°	26596
70°	21728
75°	24627
80°	25820
85°	20945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.9	5.0
10°-20°	1360.3	14.1
20°-30°	2001.3	20.8
30°-40°	2260.5	23.5
40°-50°	1903.7	19.8
50°-60°	960.5	10.0
60°-70°	376.2	3.9
70°-80°	212.5	2.2
80°-90°	66.1	0.7
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°	3843.5	39.9
0°-40°	6104.0	63.4
0°-60°	8968.2	93.2
0°-90°	9623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9623.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5110	
5°	5078	482
15°	4836	1360
25°	4355	2001
35°	3631	2260
45°	2507	1904
55°	1036	960
65°	364	376
75°	207	212
85°	59	66
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5109.9
2.5°	5104.7
5°	5077.7
7.5°	5042.4
10°	4982.2
12.5°	4907.4
15°	4835.7
17.5°	4726.7
20°	4617.6
22.5°	4499.2
25°	4354.9
27.5°	4191.8
30°	4021.5
32.5°	3830.4
35°	3630.9
37.5°	3402.5
40°	3170.8
42.5°	2855.1
45°	2507.2
47.5°	2108.4
50°	1713.7
52.5°	1357.5
55°	1036.5
57.5°	781.0
60°	587.8
62.5°	448.7
65°	364.5
67.5°	297.0
70°	241.0
72.5°	232.6
75°	206.7
77.5°	172.4
80°	145.4
82.5°	92.4
85°	59.2
87.5°	18.7
90°	0.0

(END OF REPORT)