

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: P247719

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBS0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247719  
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 EC8B90827 8LBS0MW  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9790.0 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

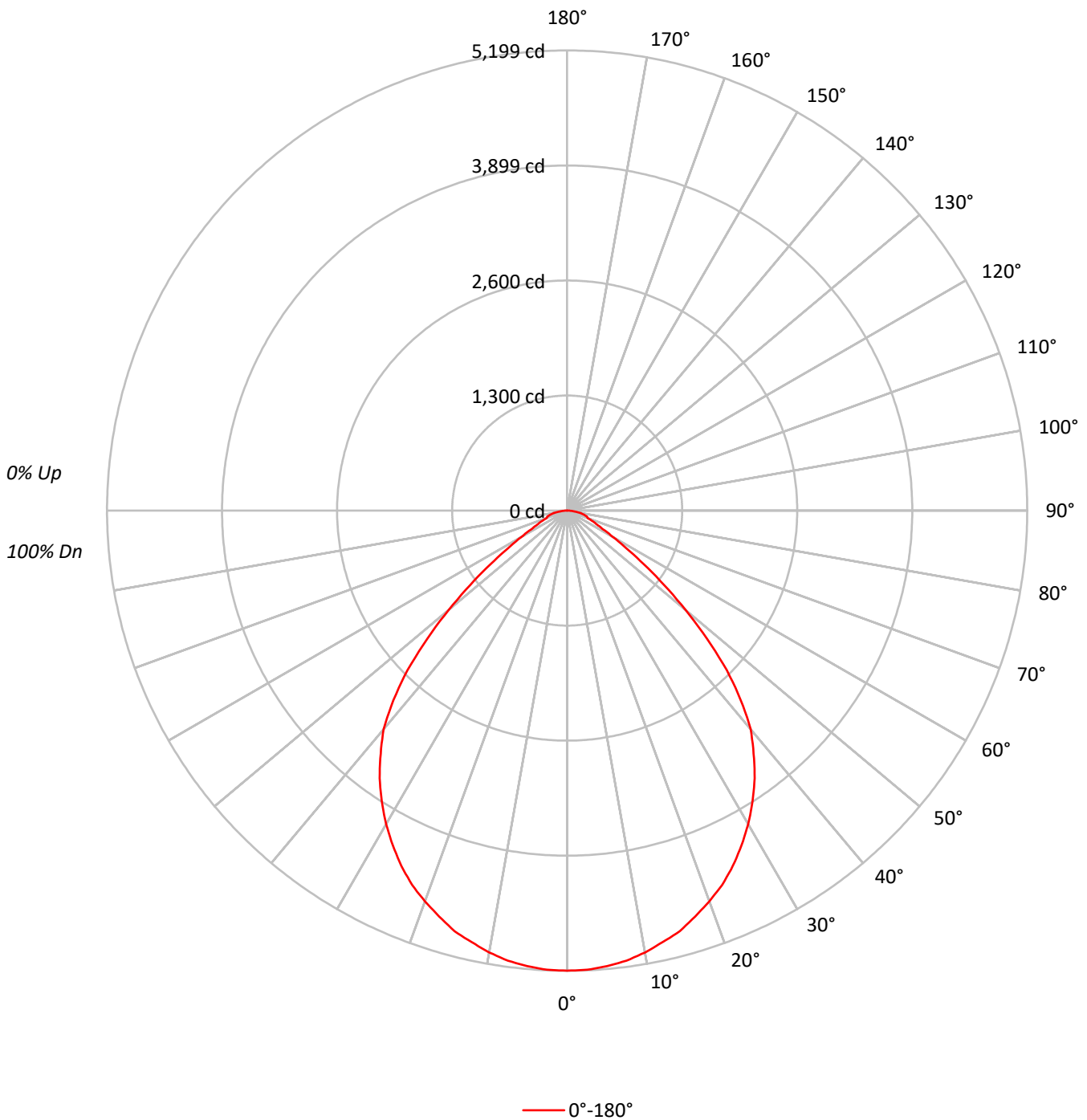
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	160306
5°	159903
10°	158708
15°	157054
20°	154160
25°	150740
30°	145678
35°	139058
40°	129855
45°	111234
50°	83636
55°	56691
60°	36880
65°	27063
70°	22098
75°	25056
80°	26264
85°	21299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.2	5.0
10°-20°	1383.9	14.1
20°-30°	2036.0	20.8
30°-40°	2299.7	23.5
40°-50°	1936.8	19.8
50°-60°	977.1	10.0
60°-70°	382.8	3.9
70°-80°	216.2	2.2
80°-90°	67.2	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°	3910.2	39.9
0°-40°	6209.9	63.4
0°-60°	9123.8	93.2
0°-90°	9790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9790.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5199	
5°	5166	490
15°	4920	1384
25°	4430	2036
35°	3694	2300
45°	2551	1937
55°	1054	977
65°	371	383
75°	210	216
85°	60	67
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5198.6
2.5°	5193.3
5°	5165.8
7.5°	5129.9
10°	5068.6
12.5°	4992.6
15°	4919.6
17.5°	4808.7
20°	4697.8
22.5°	4577.3
25°	4430.4
27.5°	4264.5
30°	4091.3
32.5°	3896.8
35°	3694.0
37.5°	3461.5
40°	3225.9
42.5°	2904.7
45°	2550.7
47.5°	2144.9
50°	1743.4
52.5°	1381.0
55°	1054.5
57.5°	794.6
60°	598.0
62.5°	456.5
65°	370.9
67.5°	302.2
70°	245.1
72.5°	236.7
75°	210.3
77.5°	175.4
80°	147.9
82.5°	94.0
85°	60.2
87.5°	19.0
90°	0.0

(END OF REPORT)