

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: P247731

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBS0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247731  
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 EC8B90840 8LBS0MW  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10367.0 lumens  
Efficiency: N/A  
Efficacy: 120.4 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

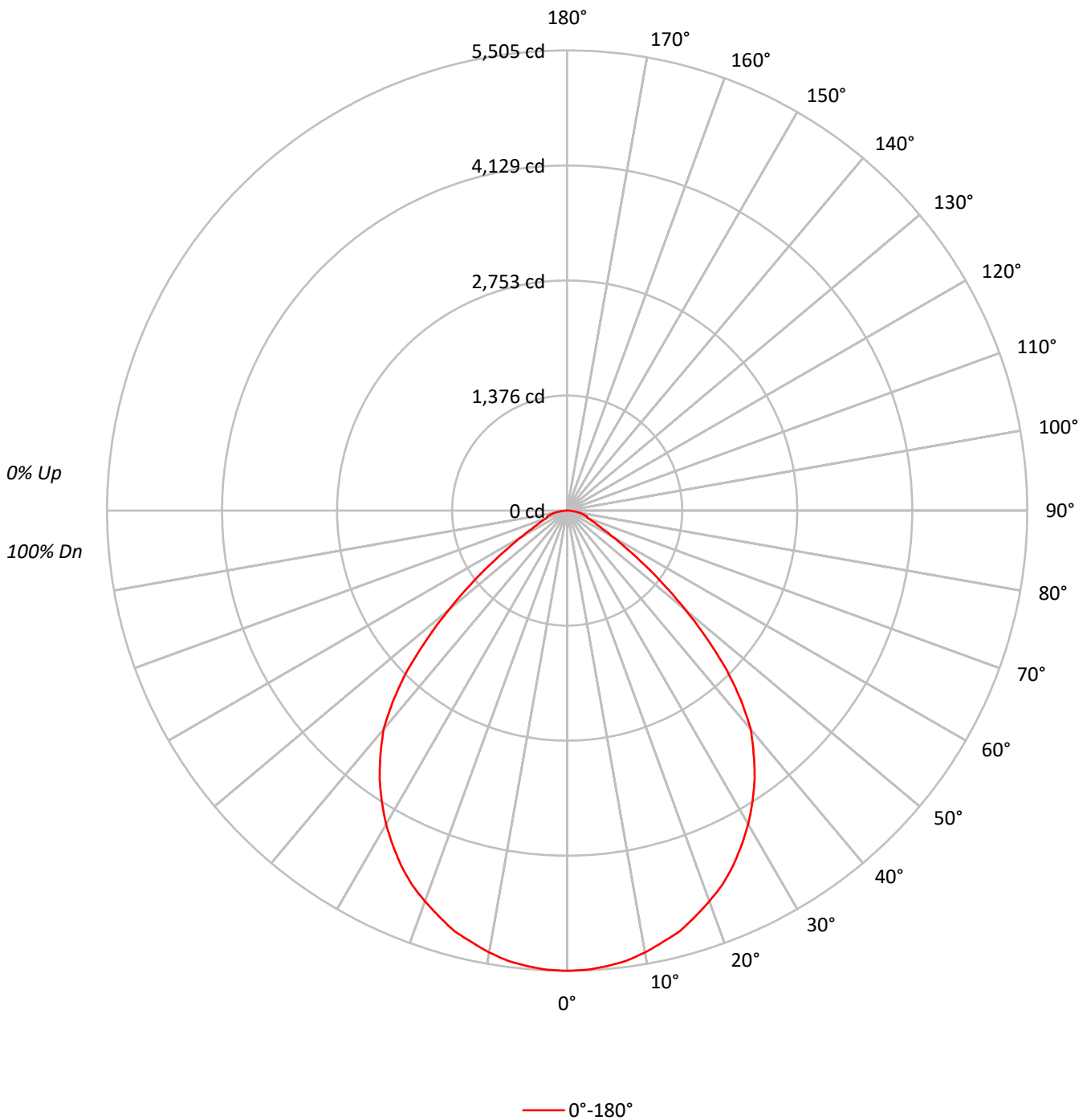
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	169754
5°	169328
10°	168064
15°	166312
20°	163243
25°	159624
30°	154263
35°	147253
40°	137507
45°	117788
50°	88567
55°	60035
60°	39057
65°	28653
70°	23405
75°	26533
80°	27809
85°	22573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.1	5.0
10°-20°	1465.5	14.1
20°-30°	2156.0	20.8
30°-40°	2435.3	23.5
40°-50°	2050.9	19.8
50°-60°	1034.7	10.0
60°-70°	405.4	3.9
70°-80°	228.9	2.2
80°-90°	71.2	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°	4140.6	39.9
0°-40°	6575.9	63.4
0°-60°	9661.6	93.2
0°-90°	10367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10367.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5505	
5°	5470	519
15°	5210	1466
25°	4692	2156
35°	3912	2435
45°	2701	2051
55°	1117	1035
65°	393	405
75°	223	229
85°	64	71
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5505.0
2.5°	5499.4
5°	5470.3
7.5°	5432.3
10°	5367.4
12.5°	5286.8
15°	5209.6
17.5°	5092.1
20°	4974.6
22.5°	4847.1
25°	4691.5
27.5°	4515.9
30°	4332.4
32.5°	4126.5
35°	3911.7
37.5°	3665.5
40°	3416.0
42.5°	3075.9
45°	2701.0
47.5°	2271.4
50°	1846.2
52.5°	1462.4
55°	1116.7
57.5°	841.4
60°	633.3
62.5°	483.4
65°	392.7
67.5°	320.0
70°	259.6
72.5°	250.6
75°	222.7
77.5°	185.7
80°	156.6
82.5°	99.6
85°	63.8
87.5°	20.1
90°	0.0

(END OF REPORT)