

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: P246979

Luminaire Tested: **LSR8B90D010 EC8B90935 8LBM0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90935 8LBM0LI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8262.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

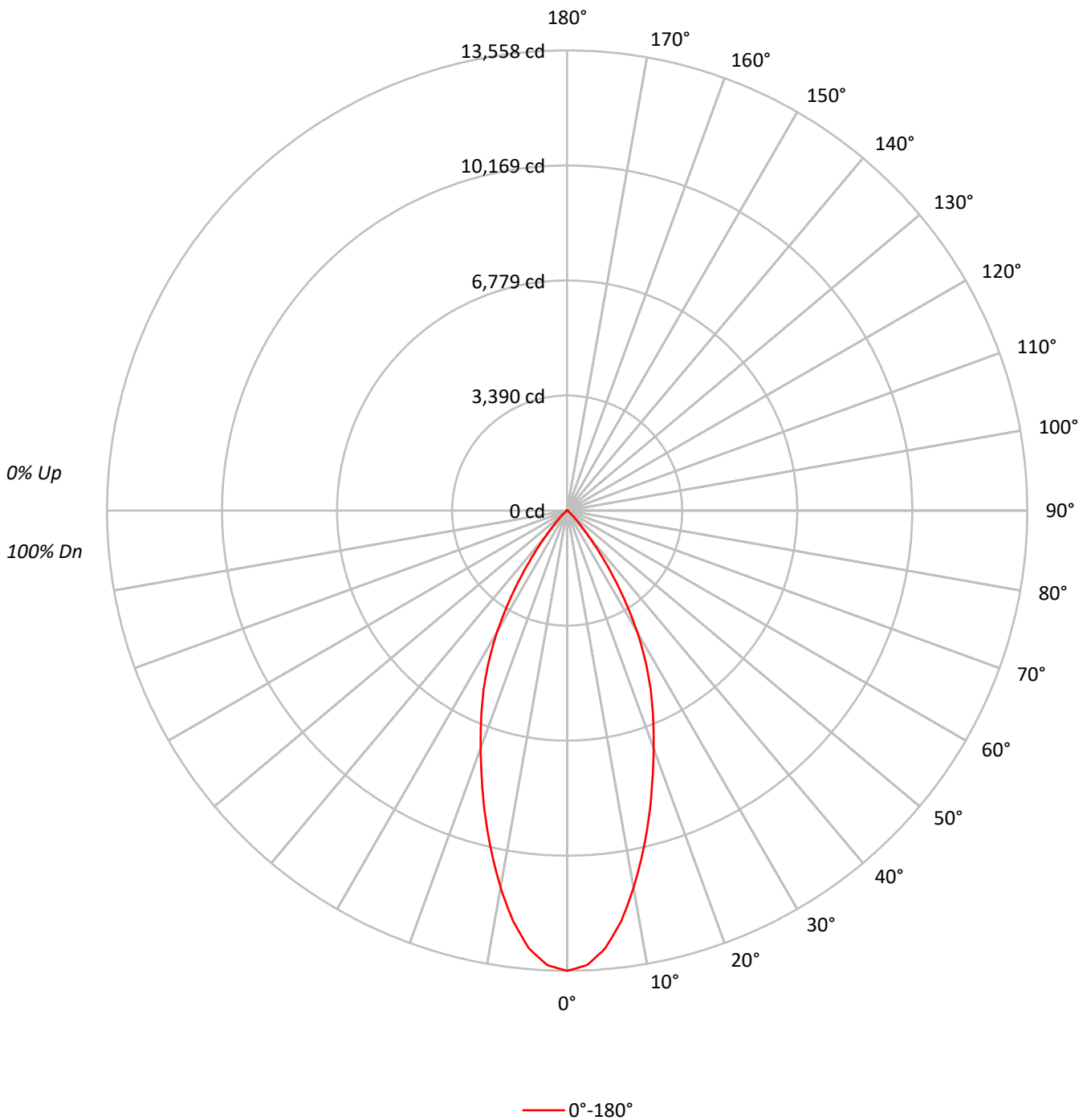
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94		96	94	92		94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87		91	88	86		89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81		87	83	80		85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76		82	78	75		81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71		78	74	71		77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67		74	70	67		73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	63		71	66	63		70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60		67	63	60		67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57		64	60	57		64	60	57	55

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

	0°
0°	418085
5°	400654
10°	353287
15°	297734
20°	244458
25°	198136
30°	146682
35°	88294
40°	39320
45°	15289
50°	5483
55°	1602
60°	1122
65°	839
70°	90
75°	453
80°	0
85°	1344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1181.7	14.3
10°-20°	2590.4	31.4
20°-30°	2641.8	32.0
30°-40°	1479.6	17.9
40°-50°	315.5	3.8
50°-60°	39.1	0.5
60°-70°	10.2	0.1
70°-80°	2.4	0.0
80°-90°	1.3	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°	6413.9	77.6
0°-40°	7893.5	95.5
0°-60°	8248.1	99.8
0°-90°	8262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13558	
5°	12944	###
15°	9326	2590
25°	5823	2642
35°	2346	1480
45°	351	316
55°	30	39
65°	12	10
75°	4	2
85°	4	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13558.2
2.5°	13405.5
5°	12943.5
7.5°	12200.1
10°	11282.8
12.5°	10298.3
15°	9326.3
17.5°	8348.5
20°	7449.5
22.5°	6612.9
25°	5823.4
27.5°	4994.5
30°	4119.5
32.5°	3205.1
35°	2345.5
37.5°	1571.4
40°	976.8
42.5°	584.0
45°	350.6
47.5°	195.0
50°	114.3
52.5°	60.5
55°	29.8
57.5°	21.1
60°	18.2
62.5°	8.6
65°	11.5
67.5°	11.5
70°	1.0
72.5°	2.9
75°	3.8
77.5°	1.9
80°	0.0
82.5°	1.0
85°	3.8
87.5°	0.0
90°	0.0

(END OF REPORT)