

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: P246967

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBM0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246967  
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 EC8B90850 8LBM0LI  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9814.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

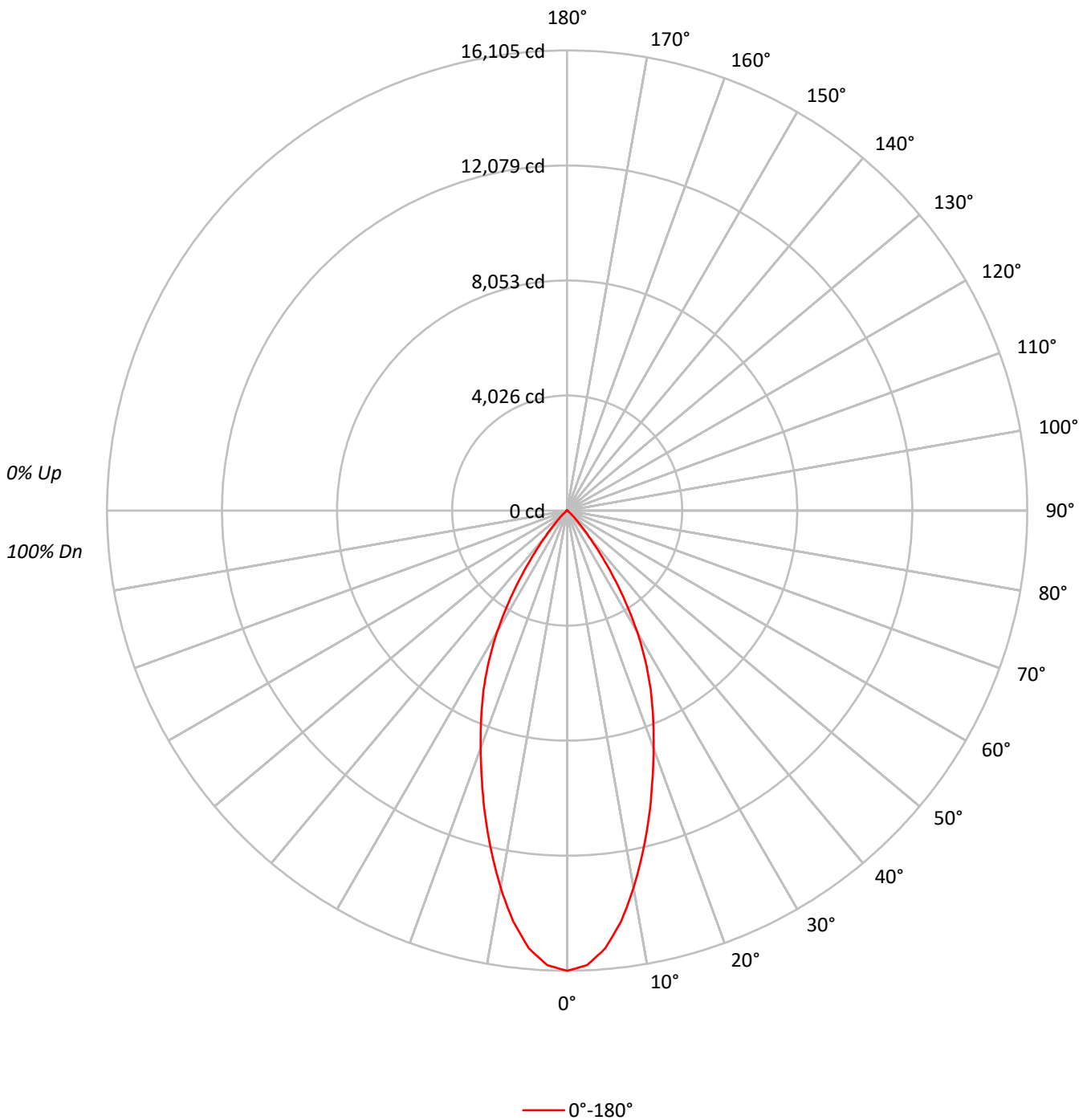
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	496622
5°	475916
10°	419653
15°	353662
20°	290379
25°	235355
30°	174238
35°	104880
40°	46707
45°	18159
50°	6515
55°	1903
60°	1338
65°	1000
70°	99
75°	548
80°	0
85°	1628



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1403.6	14.3
10°-20°	3077.0	31.4
20°-30°	3138.1	32.0
30°-40°	1757.5	17.9
40°-50°	374.8	3.8
50°-60°	46.4	0.5
60°-70°	12.1	0.1
70°-80°	2.9	0.0
80°-90°	1.6	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°	7618.7	77.6
0°-40°	9376.2	95.5
0°-60°	9797.5	99.8
0°-90°	9814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9814.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16105	
5°	15375	###
15°	11078	3077
25°	6917	3138
35°	2786	1758
45°	416	375
55°	35	46
65°	14	12
75°	5	3
85°	5	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16105.1
2.5°	15923.7
5°	15374.9
7.5°	14491.8
10°	13402.3
12.5°	12232.8
15°	11078.2
17.5°	9916.8
20°	8848.9
22.5°	7855.2
25°	6917.3
27.5°	5932.7
30°	4893.4
32.5°	3807.2
35°	2786.1
37.5°	1866.5
40°	1160.3
42.5°	693.7
45°	416.4
47.5°	231.6
50°	135.8
52.5°	71.9
55°	35.4
57.5°	25.1
60°	21.7
62.5°	10.3
65°	13.7
67.5°	13.7
70°	1.1
72.5°	3.4
75°	4.6
77.5°	2.3
80°	0.0
82.5°	1.1
85°	4.6
87.5°	0.0
90°	0.0

(END OF REPORT)