

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: P249883

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90835 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9166.0 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

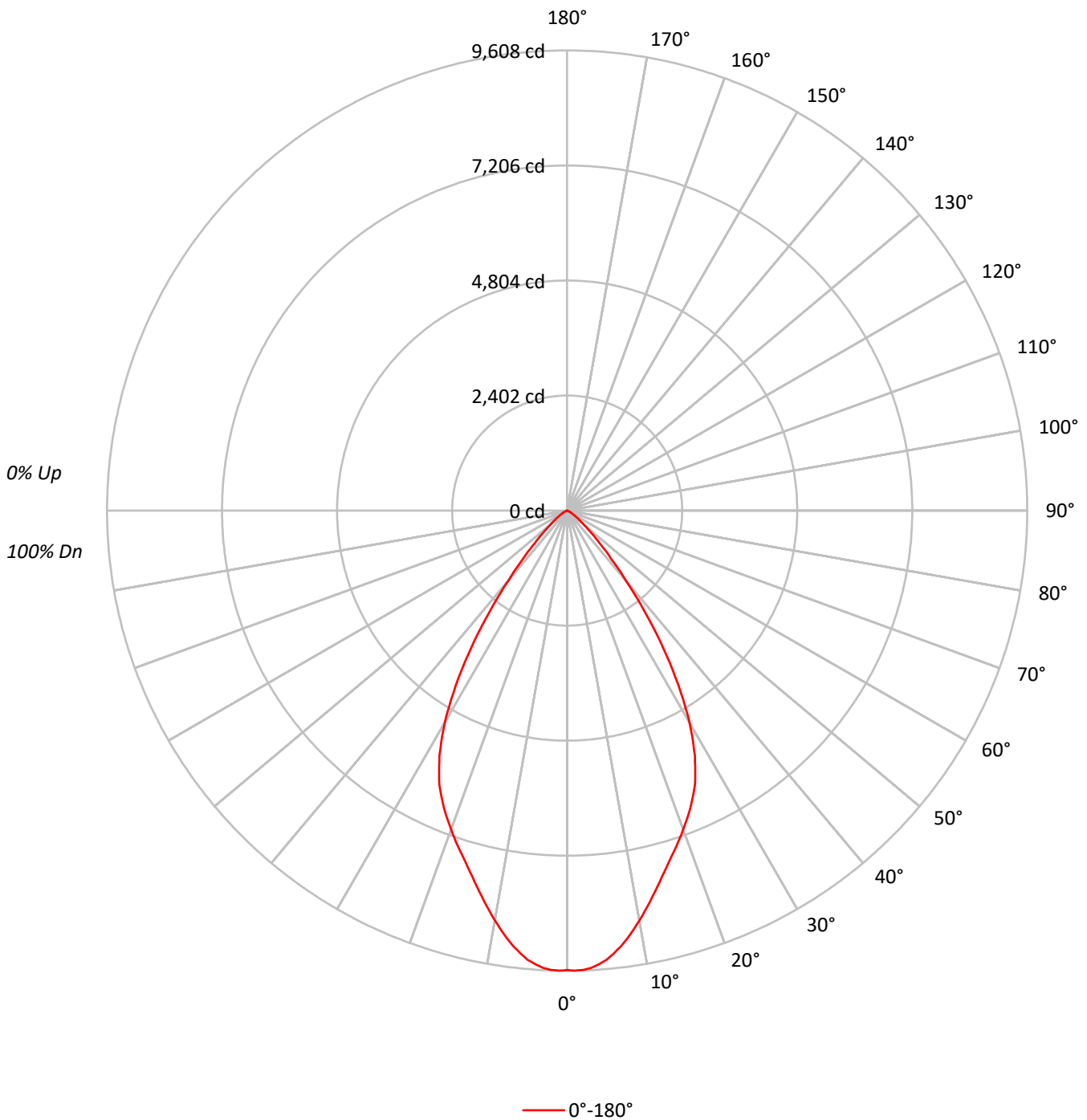
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76		83	79	76		81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65		73	68	65		71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56		64	60	56		63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53		61	56	52		60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49		57	53	49		57	52	49	48

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

	0°
0°	295841
5°	291482
10°	272026
15°	249694
20°	232556
25°	214859
30°	182203
35°	131073
40°	77215
45°	41263
50°	21530
55°	12139
60°	6698
65°	3962
70°	1803
75°	1025
80°	515
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.6	9.5
10°-20°	2200.6	24.0
20°-30°	2856.8	31.2
30°-40°	2156.3	23.5
40°-50°	789.0	8.6
50°-60°	220.5	2.4
60°-70°	58.0	0.6
70°-80°	9.8	0.1
80°-90°	0.4	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°	5932.1	64.7
0°-40°	8088.3	88.2
0°-60°	9097.9	99.3
0°-90°	9166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9166.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9594	
5°	9417	875
15°	7822	2201
25°	6315	2857
35°	3482	2156
45°	946	789
55°	226	221
65°	54	58
75°	9	10
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9593.9
1°	9608.2
2°	9596.7
3°	9559.6
4°	9496.7
5°	9416.6
6°	9299.4
7°	9170.8
8°	9022.1
9°	8859.2
10°	8687.6
11°	8516.1
12°	8338.9
13°	8158.8
14°	7987.3
15°	7821.5
16°	7664.2
17°	7512.7
18°	7375.5
19°	7232.6
20°	7086.8
22.5°	6723.7
25°	6314.9
27.5°	5774.6
30°	5117.1
32.5°	4325.2
35°	3481.9
37.5°	2658.6
40°	1918.2
42.5°	1357.9
45°	946.2
47.5°	666.1
50°	448.8
52.5°	328.8
55°	225.8
57.5°	162.9
60°	108.6
62.5°	80.0
65°	54.3
67.5°	37.2
70°	20.0
72.5°	14.3
75°	8.6
77.5°	2.9
80°	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)