

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: P250471

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBM0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90835 8LBM0GPH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8250.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

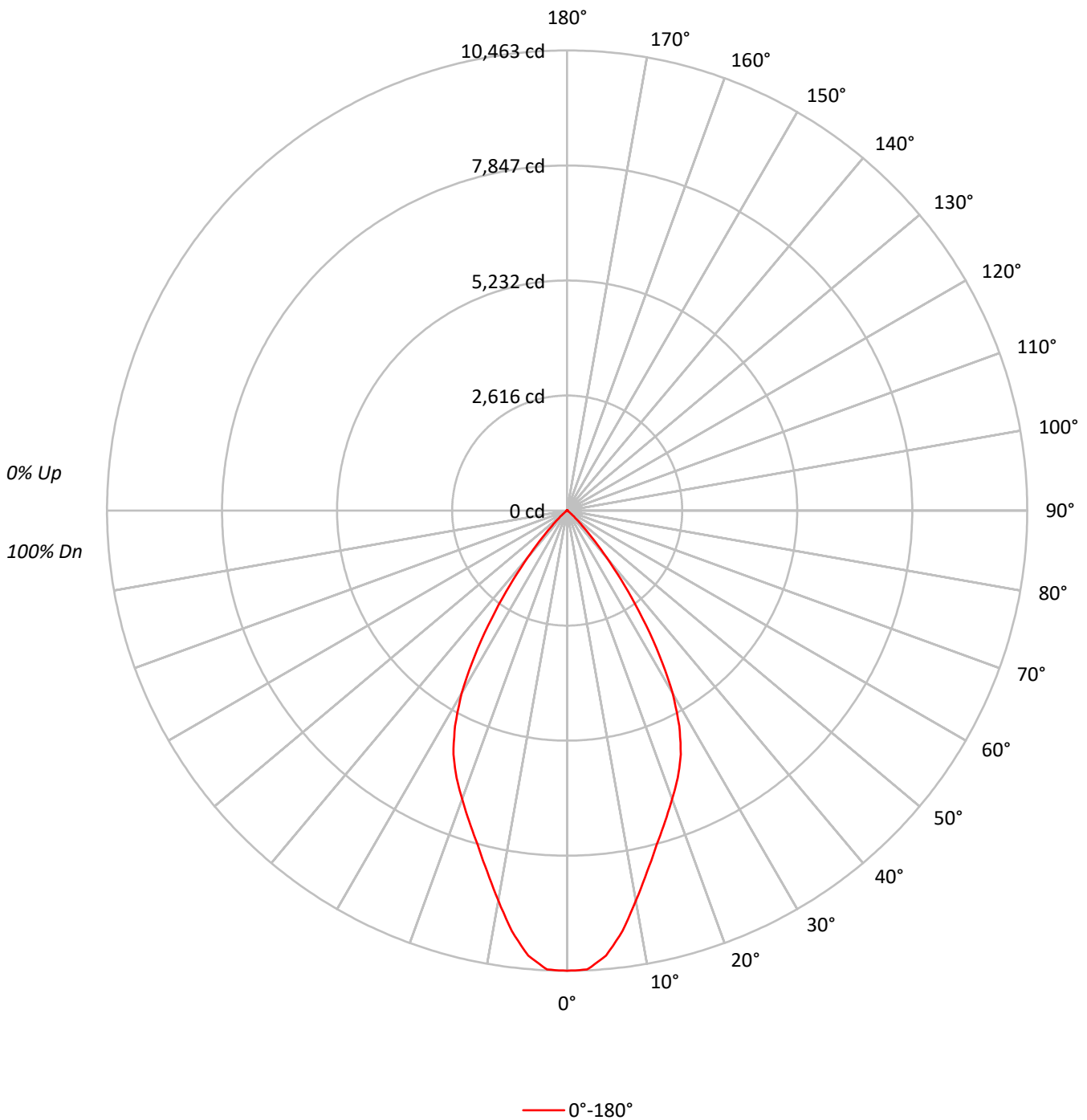
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250471

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBM0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P250471

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBM0GPH

**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	108	106	111	109	107	105	105	103	101		101	100	98		98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	82	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	59	58
9	76	66	61	57	75	66	60	57	65	60	56		64	59	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	322647
5°	314488
10°	281921
15°	251093
20°	229057
25°	208112
30°	170649
35°	112308
40°	56025
45°	20854
50°	6332
55°	763
60°	444
65°	0
70°	325
75°	1275
80°	0
85°	1274



TEST NUMBER: P250471

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBM0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	931.5	11.3
10°-20°	2214.8	26.8
20°-30°	2759.3	33.4
30°-40°	1861.2	22.6
40°-50°	440.1	5.3
50°-60°	32.2	0.4
60°-70°	5.7	0.1
70°-80°	4.2	0.1
80°-90°	1.0	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°	5905.6	71.6
0°-40°	7766.8	94.1
0°-60°	8239.0	99.9
0°-90°	8250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10463	
5°	10160	932
15°	7865	2215
25°	6117	2759
35°	2983	1861
45°	478	440
55°	14	32
65°	0	6
75°	11	4
85°	4	1
90°	0	



TEST NUMBER: P250471

CATALOG NUMBER: LSR8B90D010 EC8B90835 8LBM0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10463.2
2.5°	10445.3
5°	10159.8
7.5°	9642.4
10°	9003.6
12.5°	8400.5
15°	7865.3
17.5°	7404.8
20°	6980.2
22.5°	6573.4
25°	6116.6
27.5°	5520.7
30°	4792.6
32.5°	3911.2
35°	2983.4
37.5°	2134.1
40°	1391.8
42.5°	831.5
45°	478.2
47.5°	267.6
50°	132.0
52.5°	60.7
55°	14.2
57.5°	3.6
60°	7.2
62.5°	10.7
65°	0.0
67.5°	7.2
70°	3.6
72.5°	3.6
75°	10.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	3.6
87.5°	0.0
90°	0.0

(END OF REPORT)