

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: P248021

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13941)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150830 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14768.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

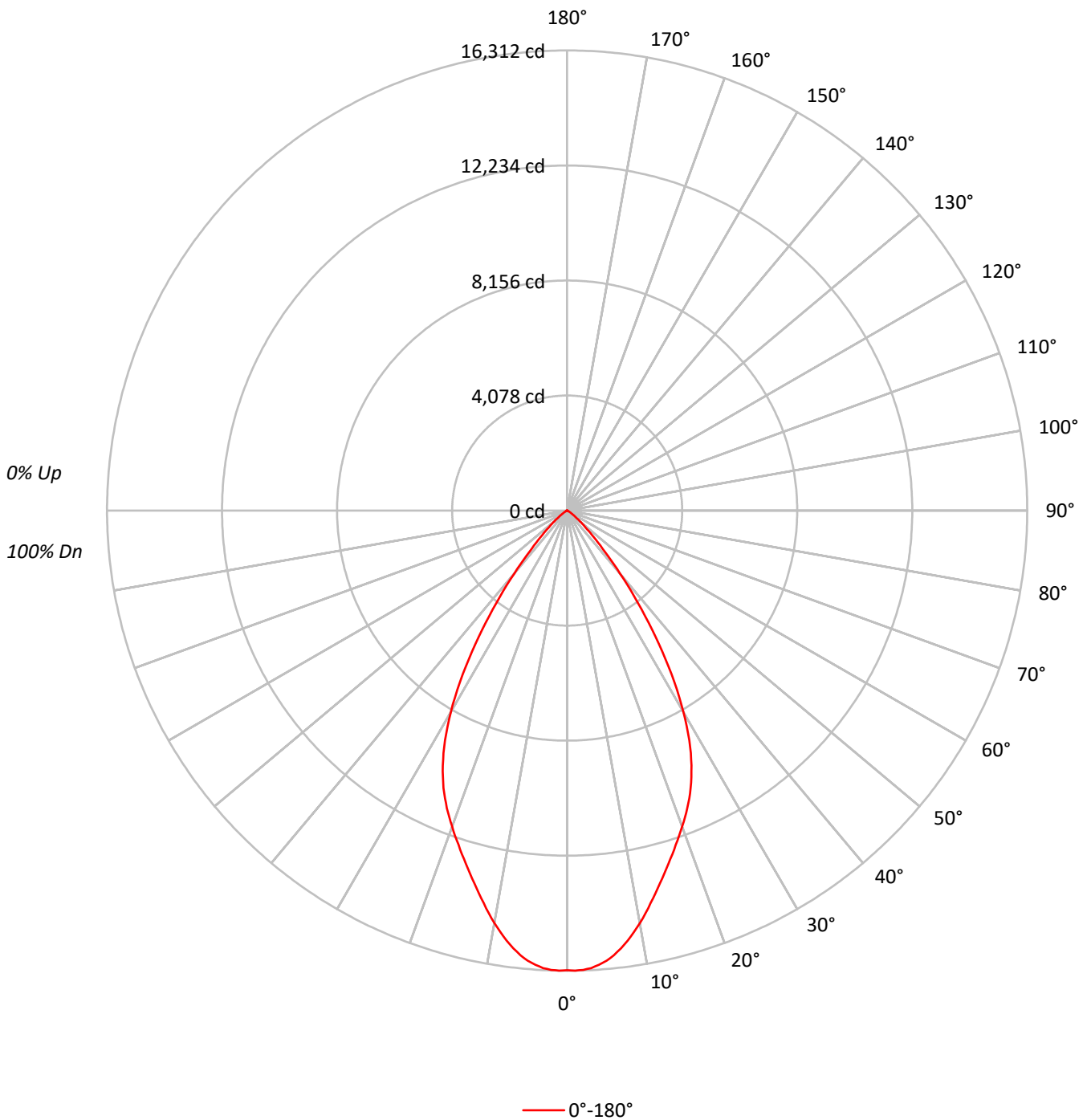
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248021

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBM0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P248021

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBM0WMH

**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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	65	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

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

	0°
0°	502320
5°	495854
10°	464843
15°	425082
20°	391326
25°	354603
30°	293631
35°	205933
40°	117195
45°	57477
50°	28366
55°	12860
60°	6124
65°	3298
70°	406
75°	536
80°	0
85°	0



TEST NUMBER: P248021

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBM0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1490.7	10.1
10°-20°	3737.9	25.3
20°-30°	4718.5	32.0
30°-40°	3394.4	23.0
40°-50°	1123.4	7.6
50°-60°	244.7	1.7
60°-70°	50.5	0.3
70°-80°	5.4	0.0
80°-90°	2.5	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°	9947.1	67.4
0°-40°	13341.5	90.3
0°-60°	14709.7	99.6
0°-90°	14768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14768.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16290	
5°	16019	###
15°	13315	3738
25°	10422	4719
35°	5470	3394
45°	1318	1123
55°	239	245
65°	45	50
75°	4	5
85°	0	2
90°	0	



TEST NUMBER: P248021

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBM0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16289.9
1°	16312.5
2°	16294.3
3°	16240.2
4°	16140.9
5°	16019.0
6°	15852.0
7°	15635.4
8°	15396.1
9°	15134.4
10°	14845.5
11°	14552.1
12°	14231.6
13°	13924.7
14°	13613.2
15°	13315.4
16°	13021.9
17°	12742.1
18°	12462.3
19°	12195.9
20°	11925.1
21°	11649.8
22°	11379.0
23°	11085.6
24°	10769.7
25°	10422.1
26°	10056.4
27°	9650.2
28°	9221.5
29°	8743.0
30°	8246.5
31°	7722.9
32°	7172.2
33°	6594.5
34°	6030.3
35°	5470.5
37.5°	4107.5
40°	2911.4
42.5°	1972.5
45°	1318.0
47.5°	884.6
50°	591.3
52.5°	356.6
55°	239.2
57.5°	167.0



TEST NUMBER: P248021

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBM0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
60°	99.3
62.5°	67.7
65°	45.2
67.5°	40.6
70°	4.5
72.5°	9.1
75°	4.5
77.5°	4.5
80°	0.0
82.5°	9.1
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)