

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: P249837

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150935 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12154.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

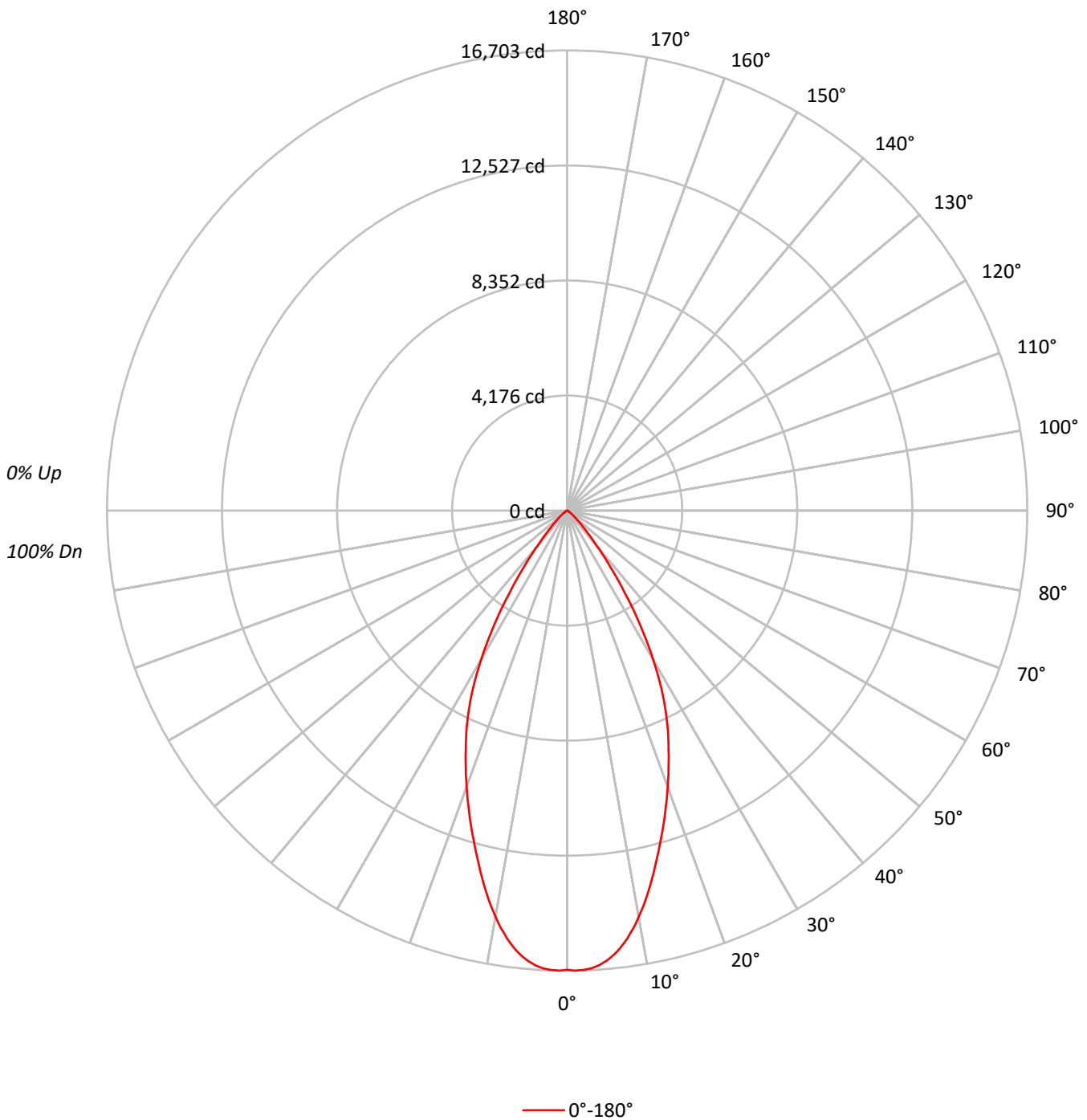
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

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

	0°
0°	514041
5°	507731
10°	468910
15°	408881
20°	350244
25°	293176
30°	223044
35°	138263
40°	68214
45°	32467
50°	15783
55°	7742
60°	4817
65°	3298
70°	1857
75°	1465
80°	1456
85°	1451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1520.1	12.5
10°-20°	3568.8	29.4
20°-30°	3900.5	32.1
30°-40°	2321.1	19.1
40°-50°	636.7	5.2
50°-60°	144.2	1.2
60°-70°	44.5	0.4
70°-80°	13.5	0.1
80°-90°	4.5	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°	8989.4	74.0
0°-40°	11310.5	93.1
0°-60°	12091.4	99.5
0°-90°	12154.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12154.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16670	
5°	16403	###
15°	12808	3569
25°	8617	3900
35°	3673	2321
45°	744	637
55°	144	144
65°	45	45
75°	12	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	16670.0
1°	16702.9
2°	16682.3
3°	16641.2
4°	16546.6
5°	16402.7
6°	16217.6
7°	15970.8
8°	15682.9
9°	15349.7
10°	14975.4
11°	14576.5
12°	14148.7
13°	13708.6
14°	13252.1
15°	12807.9
16°	12371.9
17°	11944.2
18°	11516.4
19°	11088.7
20°	10673.2
22.5°	9628.5
25°	8616.7
27.5°	7502.1
30°	6264.1
32.5°	4935.6
35°	3672.9
37.5°	2554.2
40°	1694.6
42.5°	1110.5
45°	744.5
47.5°	493.6
50°	329.0
52.5°	201.5
55°	144.0
57.5°	102.8
60°	78.1
62.5°	57.6
65°	45.2
67.5°	28.8
70°	20.6
72.5°	16.5
75°	12.3
77.5°	8.2
80°	8.2



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	4.1
85°	4.1
87.5°	4.1
90°	0.0

(END OF REPORT)