

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: P249956

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249956  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150827 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13024.0 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

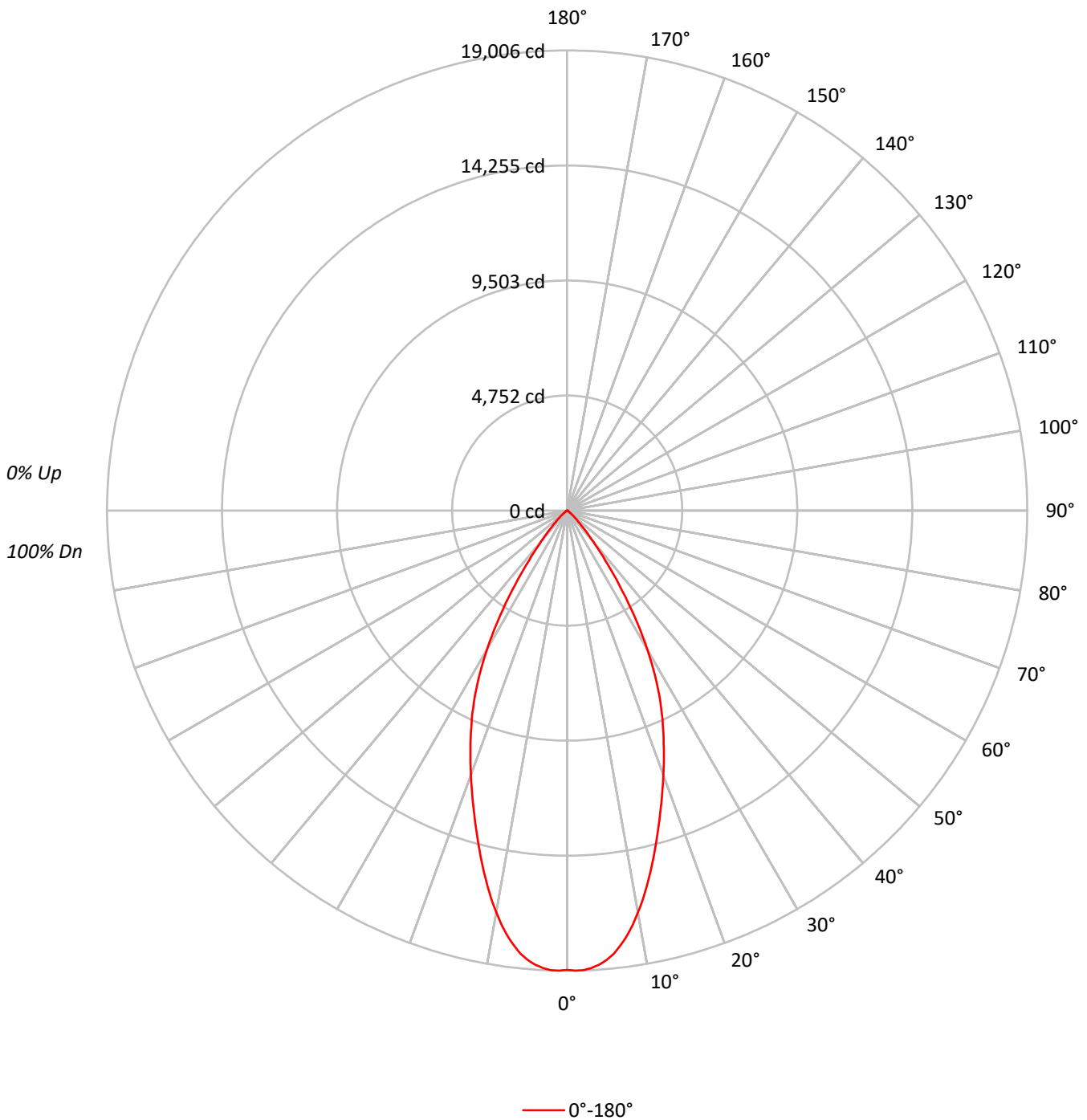
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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

	0°
0°	584956
5°	576808
10°	527698
15°	453073
20°	381534
25°	315233
30°	236450
35°	140944
40°	67152
45°	29253
50°	13264
55°	5844
60°	3355
65°	1992
70°	2047
75°	0
80°	799
85°	3220



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1721.7	13.2
10°-20°	3950.3	30.3
20°-30°	4196.7	32.2
30°-40°	2394.4	18.4
40°-50°	593.7	4.6
50°-60°	116.7	0.9
60°-70°	35.2	0.3
70°-80°	8.3	0.1
80°-90°	6.8	0.1
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°	9868.8	75.8
0°-40°	12263.2	94.2
0°-60°	12973.6	99.6
0°-90°	13024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13024.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18970	
5°	18634	###
15°	14192	3950
25°	9265	4197
35°	3744	2394
45°	671	594
55°	109	117
65°	27	35
75°	0	8
85°	9	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18969.7
1°	19006.1
2°	18992.5
3°	18924.5
4°	18806.7
5°	18634.3
6°	18407.8
7°	18095.0
8°	17736.8
9°	17315.4
10°	16852.9
11°	16363.6
12°	15837.6
13°	15302.8
14°	14754.3
15°	14192.2
16°	13661.9
17°	13127.1
18°	12623.8
19°	12111.7
20°	11626.7
22.5°	10425.4
25°	9265.0
27.5°	8018.6
30°	6640.6
32.5°	5162.8
35°	3744.1
37.5°	2579.1
40°	1668.2
42.5°	1056.2
45°	670.8
47.5°	439.8
50°	276.5
52.5°	167.8
55°	108.7
57.5°	86.2
60°	54.4
62.5°	49.8
65°	27.3
67.5°	27.3
70°	22.7
72.5°	13.6
75°	0.0
77.5°	4.5
80°	4.5



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	9.1
85°	9.1
87.5°	4.5
90°	0.0

(END OF REPORT)