

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: P249970

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249970
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 EC8B150835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13883.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

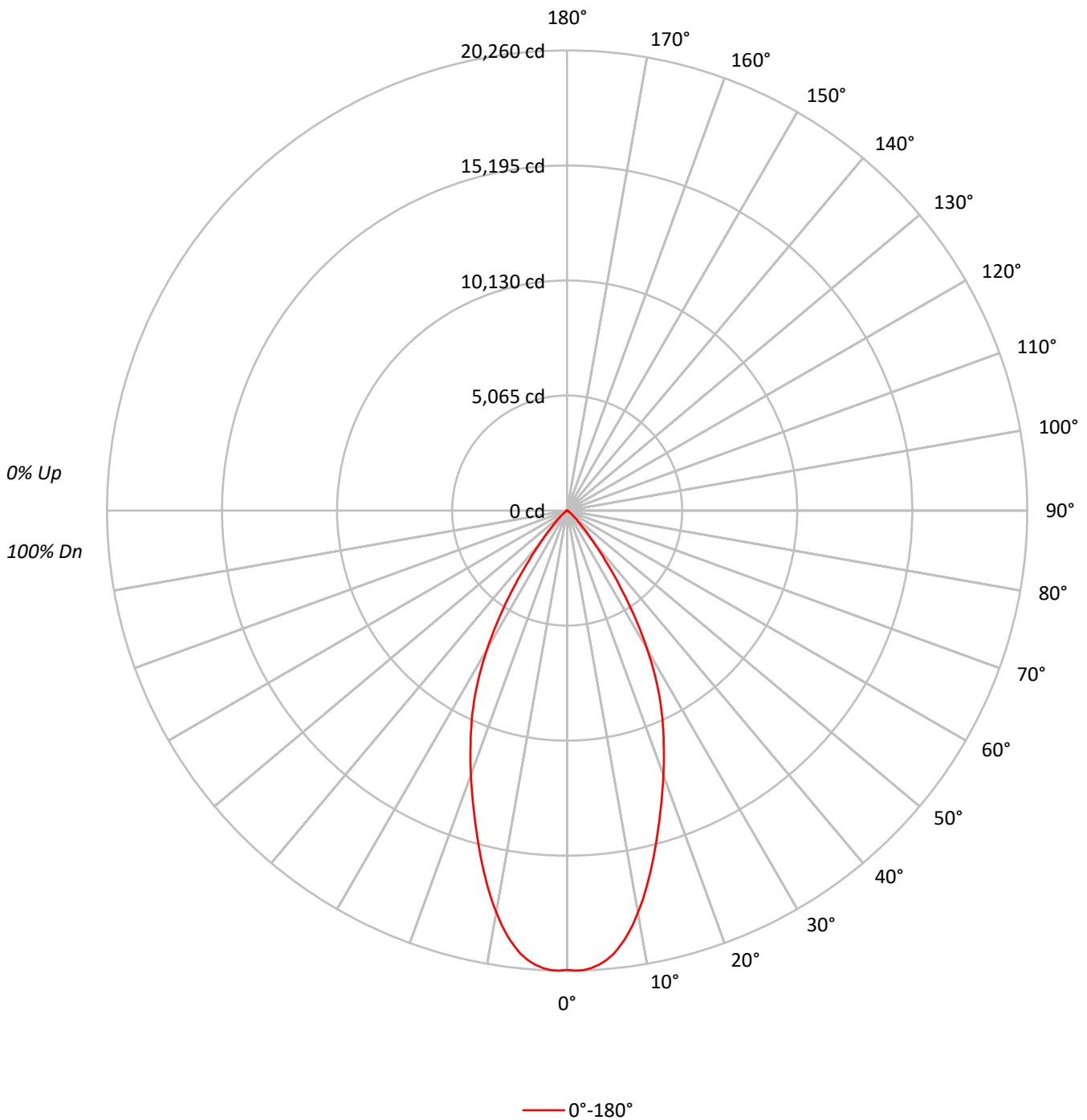
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	623538
5°	614854
10°	562505
15°	482954
20°	406697
25°	336025
30°	252046
35°	150238
40°	71580
45°	31185
50°	14138
55°	6231
60°	3571
65°	2123
70°	2182
75°	0
80°	852
85°	3432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1835.3	13.2
10°-20°	4210.8	30.3
20°-30°	4473.5	32.2
30°-40°	2552.4	18.4
40°-50°	632.9	4.6
50°-60°	124.4	0.9
60°-70°	37.6	0.3
70°-80°	8.9	0.1
80°-90°	7.2	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°	10519.7	75.8
0°-40°	13072.0	94.2
0°-60°	13829.3	99.6
0°-90°	13883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13883.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20221	
5°	19863	###
15°	15128	4211
25°	9876	4474
35°	3991	2552
45°	715	633
55°	116	124
65°	29	38
75°	0	9
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	20220.9
1°	20259.7
2°	20245.1
3°	20172.7
4°	20047.1
5°	19863.4
6°	19621.9
7°	19288.4
8°	18906.6
9°	18457.5
10°	17964.5
11°	17442.8
12°	16882.2
13°	16312.1
14°	15727.4
15°	15128.2
16°	14563.0
17°	13992.8
18°	13456.4
19°	12910.6
20°	12393.5
22.5°	11113.0
25°	9876.1
27.5°	8547.5
30°	7078.6
32.5°	5503.3
35°	3991.0
37.5°	2749.2
40°	1778.2
42.5°	1125.9
45°	715.1
47.5°	468.8
50°	294.7
52.5°	178.9
55°	115.9
57.5°	91.9
60°	57.9
62.5°	53.1
65°	29.1
67.5°	29.1
70°	24.2
72.5°	14.5
75°	0.0
77.5°	4.8
80°	4.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	9.7
85°	9.7
87.5°	4.8
90°	0.0

(END OF REPORT)