

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: P249977

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249977
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 EC8B150840 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13792.0 lumens
Efficiency: N/A
Efficacy: 87.0 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

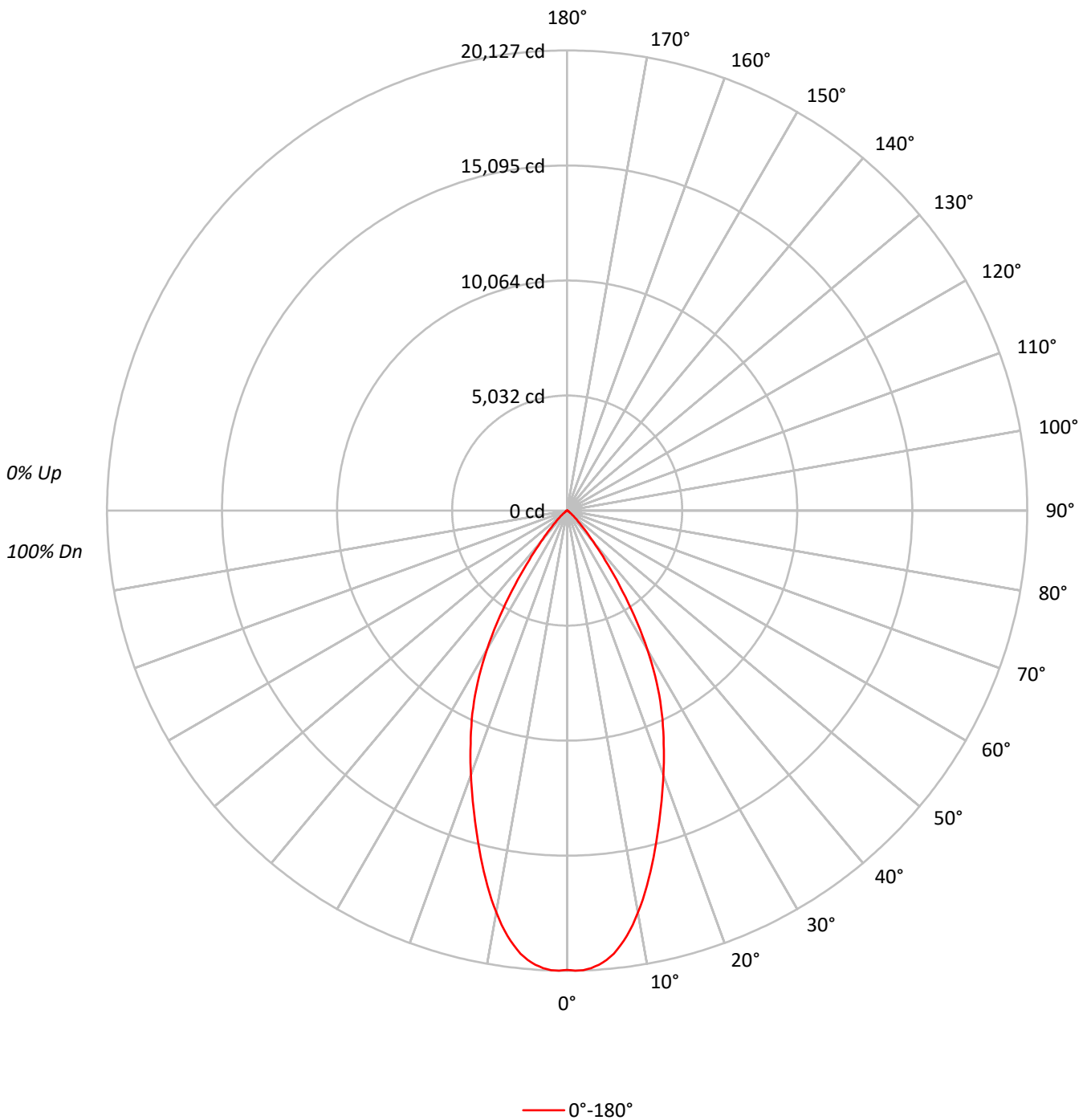
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	619452
5°	610824
10°	558816
15°	479791
20°	404032
25°	333821
30°	250393
35°	149252
40°	71109
45°	30980
50°	14046
55°	6188
60°	3552
65°	2109
70°	2173
75°	0
80°	852
85°	3397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1823.3	13.2
10°-20°	4183.2	30.3
20°-30°	4444.2	32.2
30°-40°	2535.6	18.4
40°-50°	628.7	4.6
50°-60°	123.6	0.9
60°-70°	37.3	0.3
70°-80°	8.8	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°	10450.7	75.8
0°-40°	12986.3	94.2
0°-60°	13738.6	99.6
0°-90°	13792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13792.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20088	
5°	19733	###
15°	15029	4183
25°	9811	4444
35°	3965	2536
45°	710	629
55°	115	124
65°	29	37
75°	0	9
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20088.4
1°	20126.9
2°	20112.4
3°	20040.4
4°	19915.7
5°	19733.2
6°	19493.3
7°	19162.0
8°	18782.7
9°	18336.5
10°	17846.7
11°	17328.5
12°	16771.5
13°	16205.1
14°	15624.3
15°	15029.1
16°	14467.5
17°	13901.1
18°	13368.2
19°	12825.9
20°	12312.3
22.5°	11040.1
25°	9811.3
27.5°	8491.5
30°	7032.2
32.5°	5467.2
35°	3964.8
37.5°	2731.2
40°	1766.5
42.5°	1118.5
45°	710.4
47.5°	465.7
50°	292.8
52.5°	177.7
55°	115.1
57.5°	91.3
60°	57.6
62.5°	52.7
65°	28.9
67.5°	28.9
70°	24.1
72.5°	14.4
75°	0.0
77.5°	4.8
80°	4.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	9.6
85°	9.6
87.5°	4.8
90°	0.0

(END OF REPORT)