

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: P250016

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250016
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: LSR8B90D010 EC8B90950 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7658.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

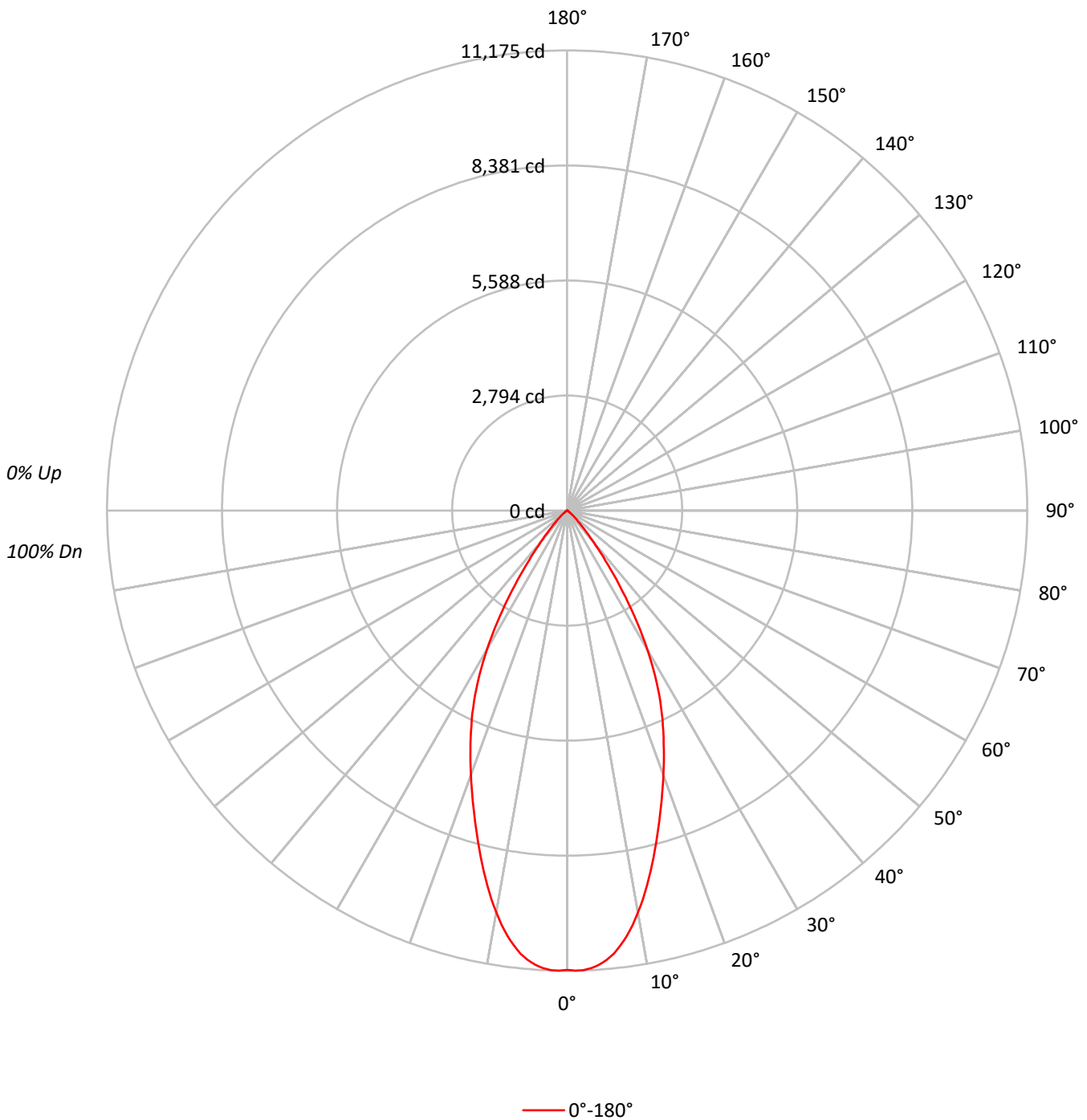
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	343948
5°	339158
10°	310283
15°	266403
20°	224339
25°	185353
30°	139030
35°	82874
40°	39485
45°	17199
50°	7800
55°	3435
60°	1974
65°	1167
70°	1208
75°	0
80°	479
85°	1875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.4	13.2
10°-20°	2322.7	30.3
20°-30°	2467.6	32.2
30°-40°	1407.9	18.4
40°-50°	349.1	4.6
50°-60°	68.7	0.9
60°-70°	20.7	0.3
70°-80°	4.9	0.1
80°-90°	4.0	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°	5802.7	75.8
0°-40°	7210.7	94.2
0°-60°	7628.4	99.6
0°-90°	7658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7658.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11154	
5°	10957	###
15°	8345	2323
25°	5448	2468
35°	2202	1408
45°	394	349
55°	64	69
65°	16	21
75°	0	5
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11154.0
1°	11175.4
2°	11167.4
3°	11127.4
4°	11058.2
5°	10956.8
6°	10823.7
7°	10639.7
8°	10429.1
9°	10181.3
10°	9909.4
11°	9621.6
12°	9312.4
13°	8997.9
14°	8675.4
15°	8344.9
16°	8033.1
17°	7718.6
18°	7422.7
19°	7121.6
20°	6836.4
22.5°	6130.0
25°	5447.7
27.5°	4714.9
30°	3904.6
32.5°	3035.7
35°	2201.5
37.5°	1516.5
40°	980.9
42.5°	621.1
45°	394.4
47.5°	258.6
50°	162.6
52.5°	98.7
55°	63.9
57.5°	50.7
60°	32.0
62.5°	29.3
65°	16.0
67.5°	16.0
70°	13.4
72.5°	8.0
75°	0.0
77.5°	2.7
80°	2.7



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.3
85°	5.3
87.5°	2.7
90°	0.0

(END OF REPORT)