

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: P249981

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249981
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 EC8B90850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8412.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

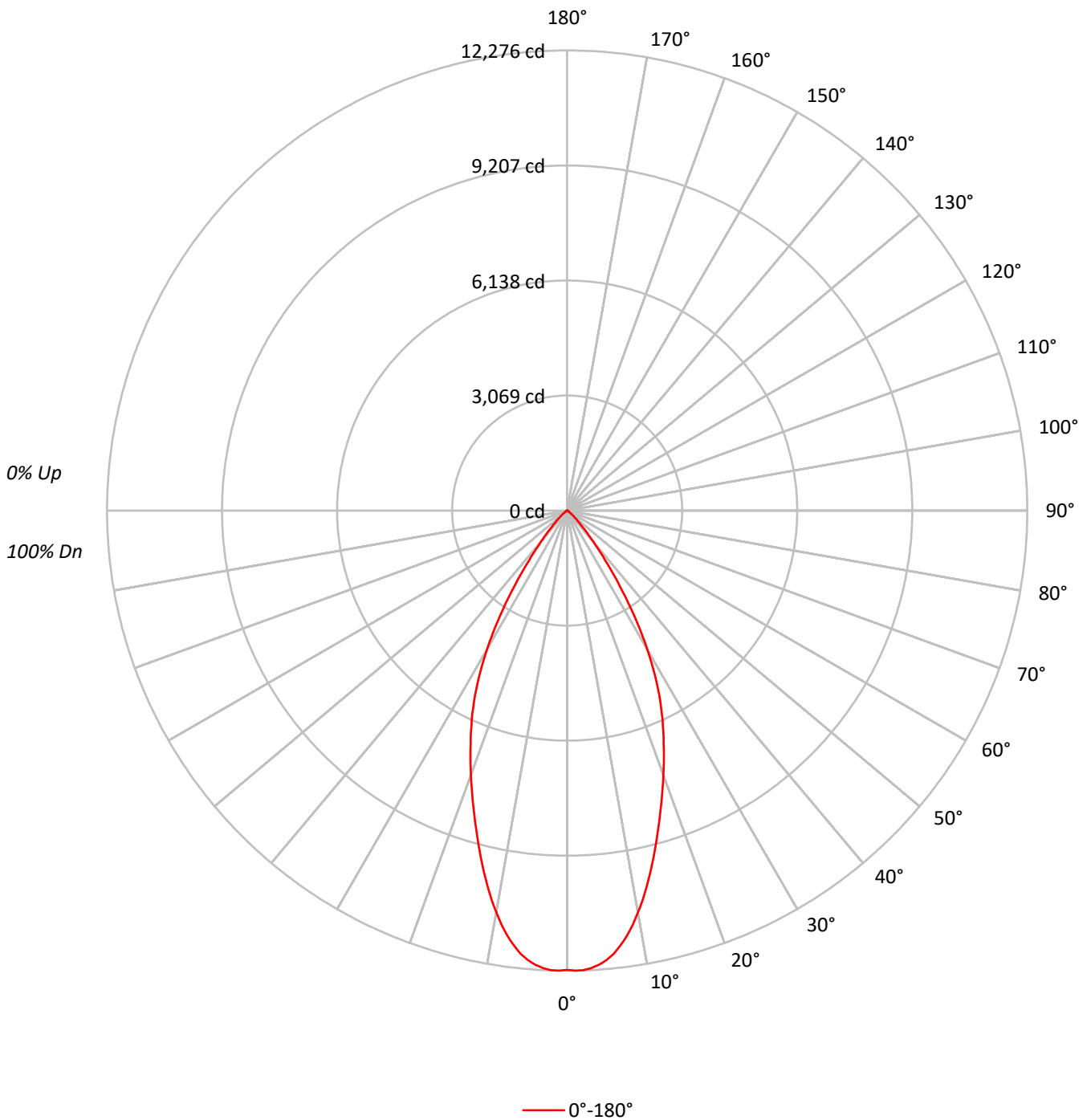
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	377816
5°	372551
10°	340831
15°	292632
20°	246427
25°	203604
30°	152721
35°	91031
40°	43370
45°	18896
50°	8568
55°	3774
60°	2165
65°	1284
70°	1325
75°	0
80°	515
85°	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.0	13.2
10°-20°	2551.4	30.3
20°-30°	2710.6	32.2
30°-40°	1546.5	18.4
40°-50°	383.4	4.6
50°-60°	75.4	0.9
60°-70°	22.8	0.3
70°-80°	5.4	0.1
80°-90°	4.4	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°	6374.1	75.8
0°-40°	7920.6	94.2
0°-60°	8379.5	99.6
0°-90°	8412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8412.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12252	
5°	12036	###
15°	9166	2551
25°	5984	2711
35°	2418	1547
45°	433	383
55°	70	75
65°	18	23
75°	0	5
85°	6	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12252.3
1°	12275.8
2°	12266.9
3°	12223.0
4°	12147.0
5°	12035.6
6°	11889.3
7°	11687.3
8°	11455.9
9°	11183.8
10°	10885.0
11°	10569.0
12°	10229.3
13°	9883.8
14°	9529.6
15°	9166.5
16°	8824.0
17°	8478.6
18°	8153.5
19°	7822.8
20°	7509.5
22.5°	6733.6
25°	5984.1
27.5°	5179.1
30°	4289.1
32.5°	3334.6
35°	2418.2
37.5°	1665.8
40°	1077.4
42.5°	682.2
45°	433.3
47.5°	284.0
50°	178.6
52.5°	108.4
55°	70.2
57.5°	55.7
60°	35.1
62.5°	32.2
65°	17.6
67.5°	17.6
70°	14.7
72.5°	8.8
75°	0.0
77.5°	2.9
80°	2.9



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.9
85°	5.9
87.5°	2.9
90°	0.0

(END OF REPORT)