

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: P249967

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249967
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 EC8B90835 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: 8305.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

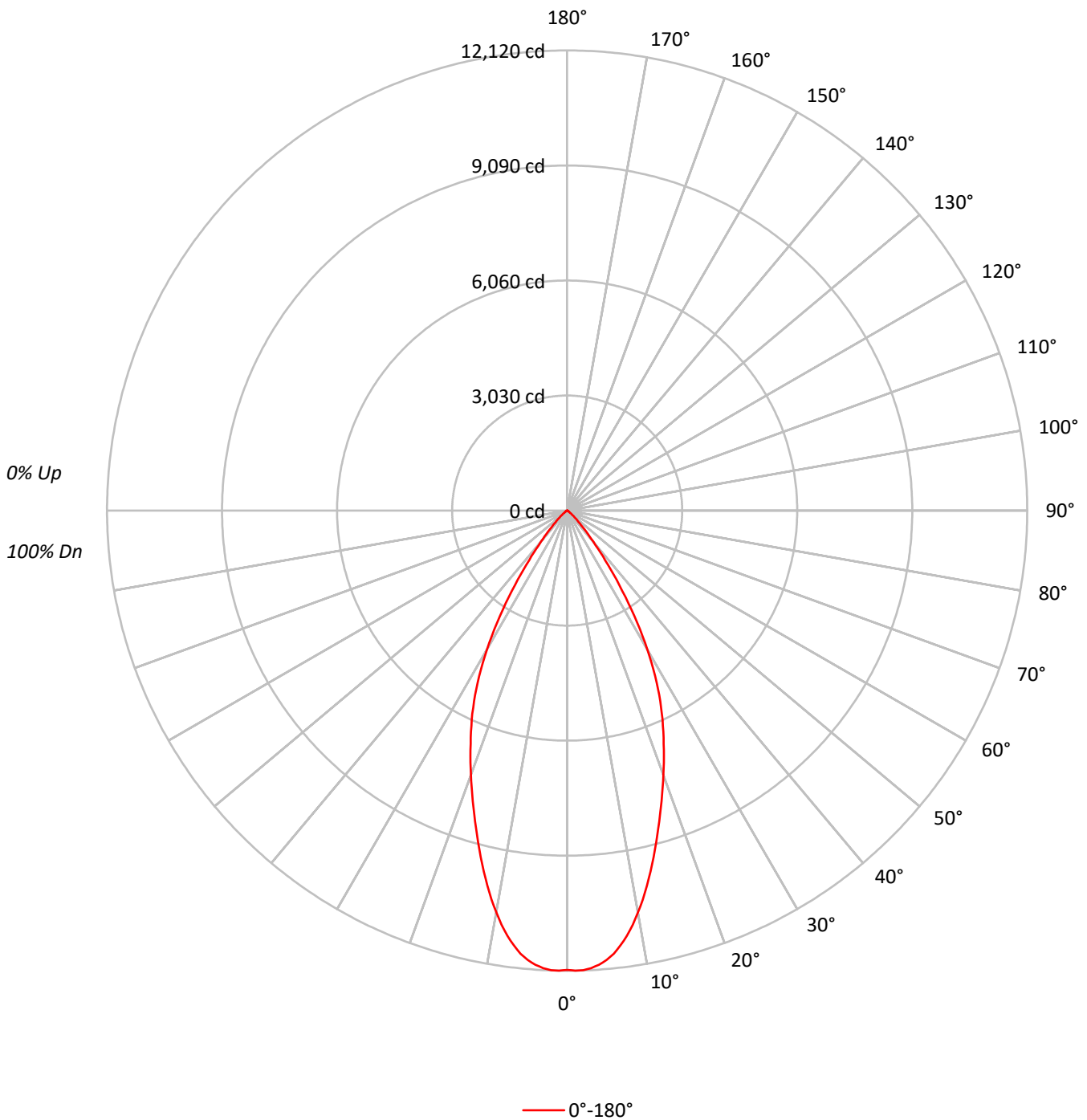
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	373008
5°	367812
10°	336498
15°	288910
20°	243293
25°	201014
30°	150777
35°	89876
40°	42818
45°	18656
50°	8458
55°	3726
60°	2140
65°	1270
70°	1307
75°	0
80°	515
85°	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.9	13.2
10°-20°	2519.0	30.3
20°-30°	2676.1	32.2
30°-40°	1526.8	18.4
40°-50°	378.6	4.6
50°-60°	74.4	0.9
60°-70°	22.5	0.3
70°-80°	5.3	0.1
80°-90°	4.3	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°	6293.0	75.8
0°-40°	7819.8	94.2
0°-60°	8272.9	99.6
0°-90°	8305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8305.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12096	
5°	11882	###
15°	9050	2519
25°	5908	2676
35°	2388	1527
45°	428	379
55°	69	74
65°	17	22
75°	0	5
85°	6	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12096.4
1°	12119.6
2°	12110.9
3°	12067.6
4°	11992.4
5°	11882.5
6°	11738.1
7°	11538.6
8°	11310.2
9°	11041.5
10°	10746.6
11°	10434.5
12°	10099.1
13°	9758.1
14°	9408.4
15°	9049.9
16°	8711.8
17°	8370.7
18°	8049.8
19°	7723.3
20°	7414.0
22.5°	6647.9
25°	5908.0
27.5°	5113.2
30°	4234.5
32.5°	3292.1
35°	2387.5
37.5°	1644.6
40°	1063.7
42.5°	673.5
45°	427.8
47.5°	280.4
50°	176.3
52.5°	107.0
55°	69.3
57.5°	55.0
60°	34.7
62.5°	31.8
65°	17.4
67.5°	17.4
70°	14.5
72.5°	8.7
75°	0.0
77.5°	2.9
80°	2.9



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.8
85°	5.8
87.5°	2.9
90°	0.0

(END OF REPORT)