

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: P249959

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249959
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: LSR8B80D010 EC8B80830 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7091.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

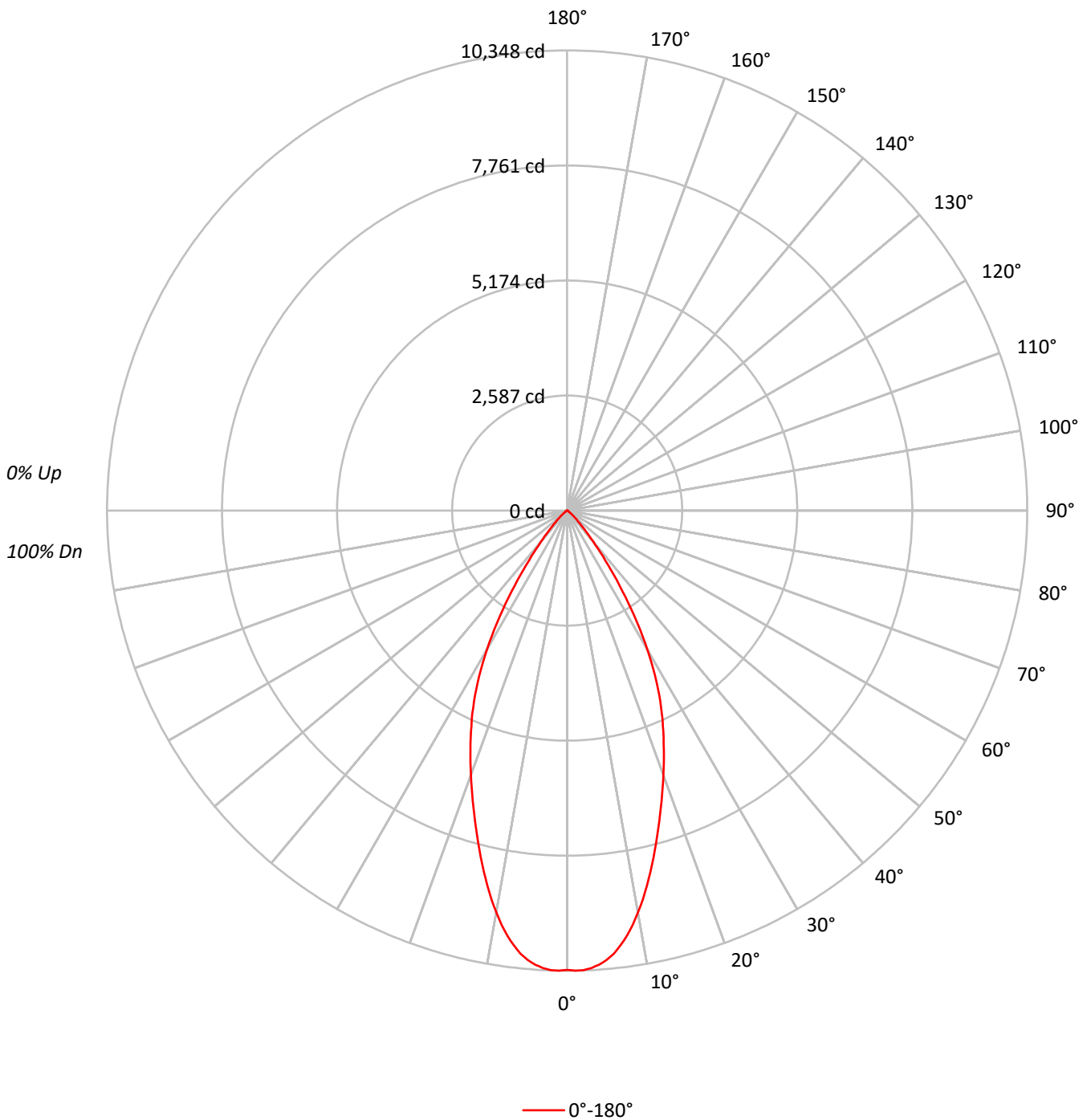
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	318484
5°	314048
10°	287310
15°	246678
20°	207728
25°	171631
30°	128736
35°	76738
40°	36559
45°	15926
50°	7220
55°	3183
60°	1826
65°	1087
70°	1118
75°	0
80°	444
85°	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	937.4	13.2
10°-20°	2150.8	30.3
20°-30°	2284.9	32.2
30°-40°	1303.7	18.4
40°-50°	323.2	4.6
50°-60°	63.6	0.9
60°-70°	19.2	0.3
70°-80°	4.5	0.1
80°-90°	3.7	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°	5373.1	75.8
0°-40°	6676.8	94.2
0°-60°	7063.5	99.6
0°-90°	7091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7091.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10328	
5°	10146	937
15°	7727	2151
25°	5044	2285
35°	2038	1304
45°	365	323
55°	59	64
65°	15	19
75°	0	5
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10328.2
1°	10348.0
2°	10340.6
3°	10303.6
4°	10239.4
5°	10145.6
6°	10022.3
7°	9851.9
8°	9656.9
9°	9427.5
10°	9175.7
11°	8909.2
12°	8622.9
13°	8331.7
14°	8033.1
15°	7727.0
16°	7438.3
17°	7147.1
18°	6873.1
19°	6594.3
20°	6330.2
22.5°	5676.2
25°	5044.4
27.5°	4365.8
30°	3615.5
32.5°	2810.9
35°	2038.5
37.5°	1404.2
40°	908.2
42.5°	575.1
45°	365.2
47.5°	239.4
50°	150.5
52.5°	91.4
55°	59.2
57.5°	46.9
60°	29.6
62.5°	27.1
65°	14.9
67.5°	14.9
70°	12.4
72.5°	7.4
75°	0.0
77.5°	2.5
80°	2.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.0
85°	5.0
87.5°	2.5
90°	0.0

(END OF REPORT)