

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: P250045

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100830 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9718.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

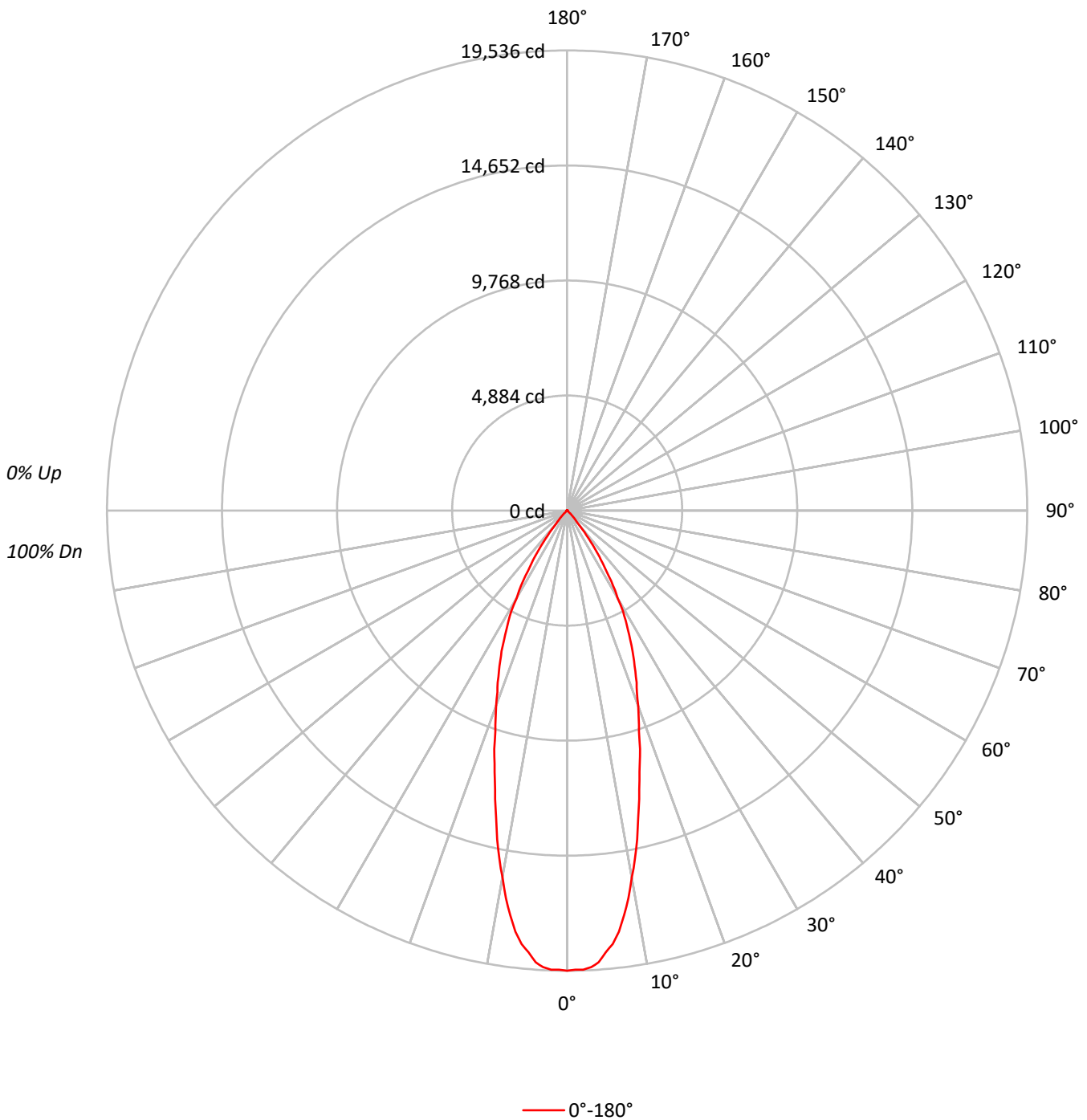
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	602403
5°	582556
10°	495428
15°	378131
20°	288988
25°	223943
30°	152739
35°	89736
40°	27437
45°	10793
50°	163
55°	183
60°	210
65°	496
70°	920
75°	810
80°	604
85°	3609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1706.2	17.6
10°-20°	3306.1	34.0
20°-30°	2976.6	30.6
30°-40°	1472.7	15.2
40°-50°	224.0	2.3
50°-60°	9.2	0.1
60°-70°	11.8	0.1
70°-80°	4.5	0.0
80°-90°	6.9	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°	7988.8	82.2
0°-40°	9461.5	97.4
0°-60°	9694.7	99.8
0°-90°	9718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9718.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19536	
5°	18820	###
15°	11845	3306
25°	6582	2977
35°	2384	1473
45°	248	224
55°	3	9
65°	7	12
75°	7	4
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19535.5
1°	19494.9
2°	19504.9
3°	19406.6
4°	19227.0
5°	18820.0
6°	18508.1
7°	18013.0
8°	17348.4
9°	16656.5
10°	15822.3
11°	15076.3
12°	14276.1
13°	13391.0
14°	12628.1
15°	11844.7
16°	11176.7
17°	10586.7
18°	9861.0
19°	9328.5
20°	8806.5
21°	8263.8
22°	7867.1
23°	7405.9
24°	6982.0
25°	6581.9
26°	6110.5
27°	5686.7
28°	5306.9
29°	4889.8
30°	4289.6
31°	3950.6
32°	3523.2
33°	3055.2
34°	2699.2
35°	2383.8
37.5°	1508.9
40°	681.6
42.5°	464.6
45°	247.5
47.5°	139.0
50°	3.4
52.5°	13.6
55°	3.4
57.5°	20.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.4
62.5°	17.0
65°	6.8
67.5°	17.0
70°	10.2
72.5°	3.4
75°	6.8
77.5°	0.0
80°	3.4
82.5°	13.6
85°	10.2
87.5°	0.0
90°	0.0

(END OF REPORT)