

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: P250017

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250017
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: LSR8B100D010 EC8B100950 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: 8836.0 lumens
Efficiency: N/A
Efficacy: 83.1 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

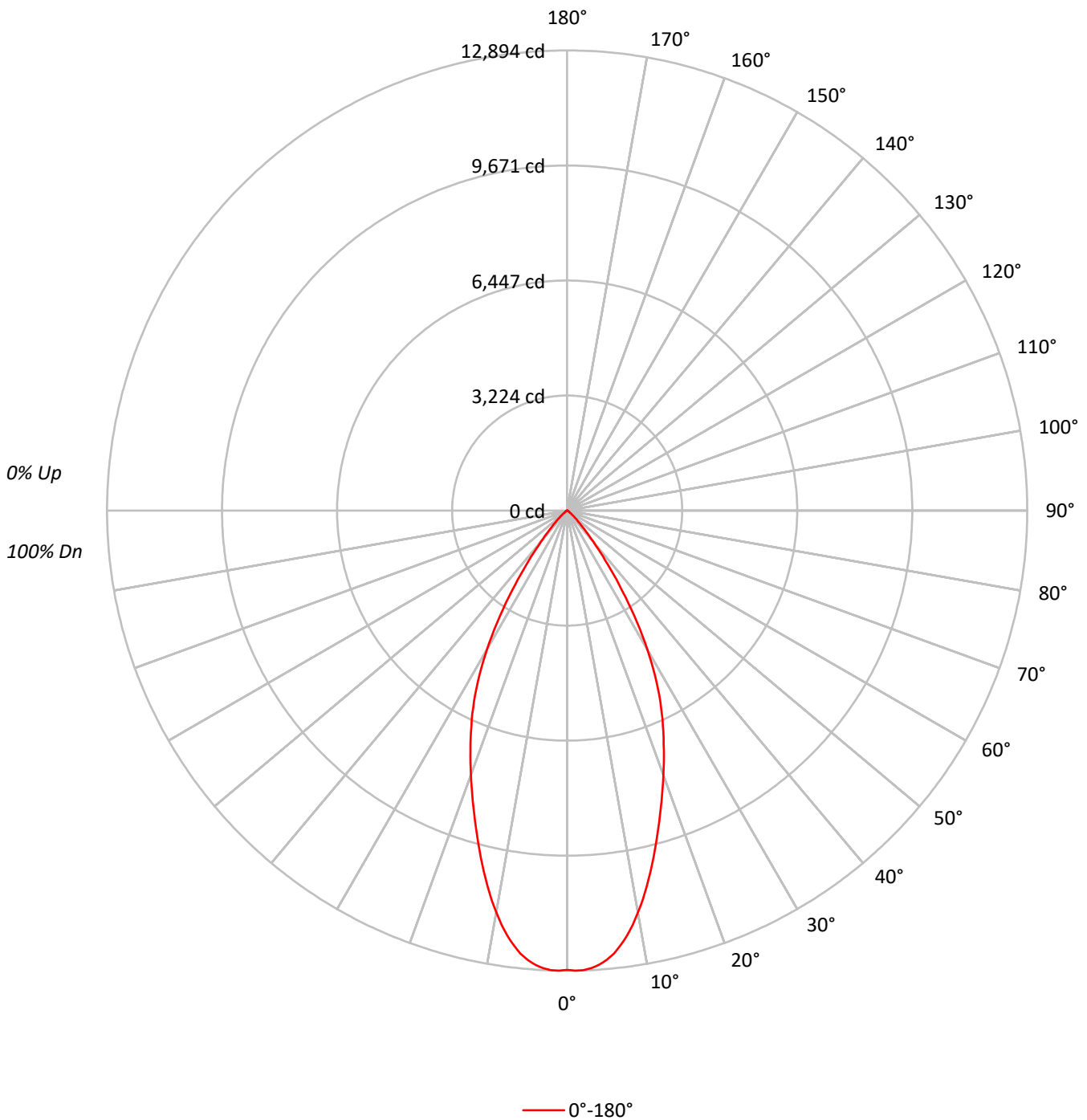
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250017

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBN0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P250017

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBN0WMH

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°	396857
5°	391331
10°	358012
15°	307381
20°	258847
25°	213865
30°	160419
35°	95620
40°	45555
45°	19847
50°	9000
55°	3962
60°	2276
65°	1350
70°	1388
75°	0
80°	550
85°	2194



TEST NUMBER: P250017

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBN0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1168.1	13.2
10°-20°	2680.0	30.3
20°-30°	2847.2	32.2
30°-40°	1624.5	18.4
40°-50°	402.8	4.6
50°-60°	79.2	0.9
60°-70°	23.9	0.3
70°-80°	5.7	0.1
80°-90°	4.6	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°	6695.4	75.8
0°-40°	8319.8	94.2
0°-60°	8801.8	99.6
0°-90°	8836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8836.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12870	
5°	12642	###
15°	9628	2680
25°	6286	2847
35°	2540	1624
45°	455	403
55°	74	79
65°	18	24
75°	0	6
85°	6	5
90°	0	



TEST NUMBER: P250017

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBN0WMH

CANDELA DISTRIBUTION (FULL):

	0°
0°	12869.8
1°	12894.5
2°	12885.3
3°	12839.1
4°	12759.2
5°	12642.3
6°	12488.6
7°	12276.3
8°	12033.4
9°	11747.5
10°	11433.7
11°	11101.7
12°	10744.9
13°	10382.0
14°	10009.9
15°	9628.5
16°	9268.8
17°	8905.9
18°	8564.5
19°	8217.1
20°	7888.0
22.5°	7073.0
25°	6285.7
27.5°	5440.2
30°	4505.3
32.5°	3502.6
35°	2540.1
37.5°	1749.8
40°	1131.7
42.5°	716.6
45°	455.1
47.5°	298.4
50°	187.6
52.5°	113.8
55°	73.7
57.5°	58.5
60°	36.9
62.5°	33.8
65°	18.5
67.5°	18.5
70°	15.4
72.5°	9.3
75°	0.0
77.5°	3.1
80°	3.1



TEST NUMBER: P250017

CATALOG NUMBER: LSR8B100D010 EC8B100950 8LBN0WMH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	6.2
85°	6.2
87.5°	3.1
90°	0.0

(END OF REPORT)