

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: P250711

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11543.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

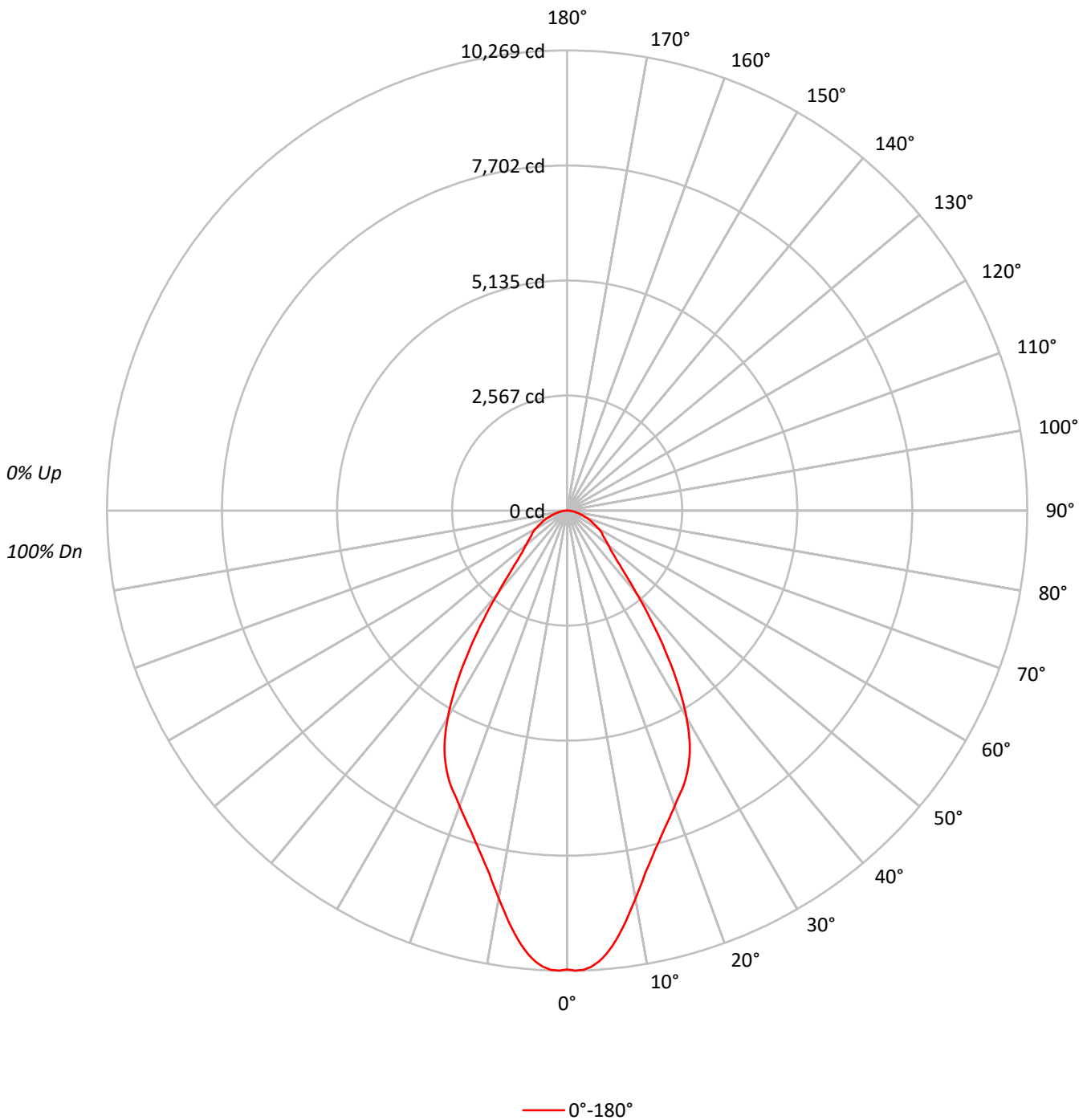
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250711

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P250711

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBM0MW

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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89					89			
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71					71			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65					65			
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46					46			
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42					42			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	315739
5°	307746
10°	275123
15°	247239
20°	230249
25°	216914
30°	189663
35°	143692
40°	96521
45°	68013
50°	57678
55°	52606
60°	49844
65°	44837
70°	40346
75°	36207
80°	32018
85°	30746



TEST NUMBER: P250711

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBM0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.0	7.9
10°-20°	2184.1	18.9
20°-30°	2894.3	25.1
30°-40°	2373.4	20.6
40°-50°	1264.1	11.0
50°-60°	889.7	7.7
60°-70°	613.5	5.3
70°-80°	319.5	2.8
80°-90°	94.5	0.8
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°	5988.4	51.9
0°-40°	8361.7	72.4
0°-60°	10515.5	91.1
0°-90°	11543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11543.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10239	
5°	9942	910
15°	7745	2184
25°	6375	2894
35°	3817	2373
45°	1560	1264
55°	978	890
65°	614	614
75°	304	320
85°	87	95
90°	0	



TEST NUMBER: P250711

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBM0MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	10239.2
1°	10269.3
2°	10255.9
3°	10195.8
4°	10092.3
5°	9942.0
6°	9755.0
7°	9531.3
8°	9290.8
9°	9033.6
10°	8786.5
11°	8549.4
12°	8308.9
13°	8108.5
14°	7918.2
15°	7744.6
16°	7580.9
17°	7430.6
18°	7290.3
19°	7150.1
20°	7016.5
21°	6886.2
22°	6772.7
23°	6655.8
24°	6518.9
25°	6375.3
26°	6211.7
27°	6028.0
28°	5820.9
29°	5590.5
30°	5326.6
31°	5049.5
32°	4759.0
33°	4448.4
34°	4137.8
35°	3817.1
37.5°	3059.1
40°	2397.8
42.5°	1893.6
45°	1559.6
47.5°	1339.2
50°	1202.3
52.5°	1082.1
55°	978.5
57.5°	915.0



TEST NUMBER: P250711

CATALOG NUMBER: LSR8B120D010 EC8B120827 8LBM0MW

CANDELA DISTRIBUTION (continued):

	0°
60°	808.2
62.5°	704.6
65°	614.5
67.5°	534.3
70°	447.5
72.5°	374.0
75°	303.9
77.5°	220.4
80°	180.3
82.5°	130.3
85°	86.9
87.5°	40.0
90°	0.0

(END OF REPORT)