

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: P250319

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120850 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10124.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

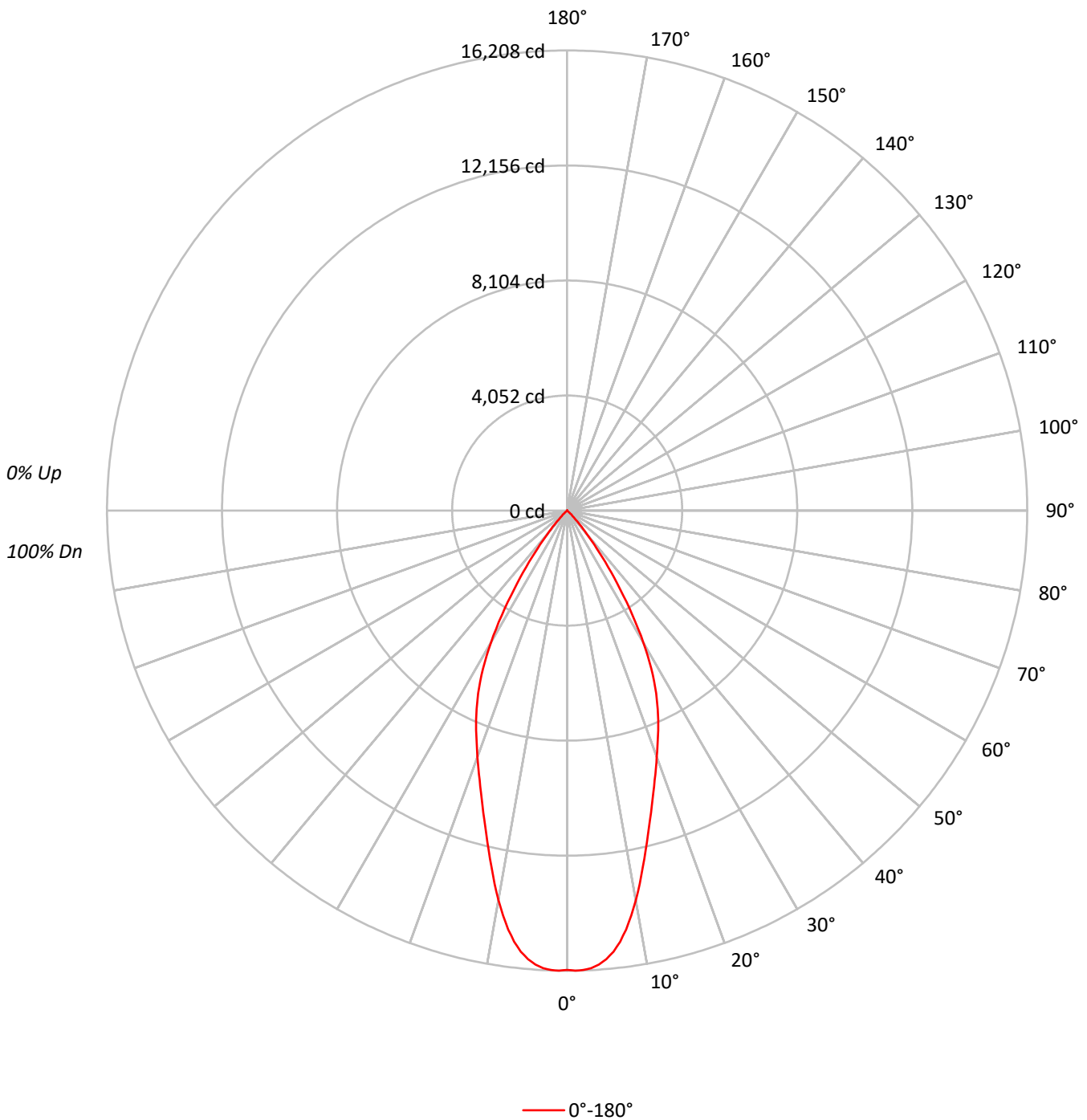
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250319

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P250319

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBN0GPH

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	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	498845
5°	490873
10°	436129
15°	359769
20°	302997
25°	255562
30°	191350
35°	108291
40°	42818
45°	11495
50°	2202
55°	0
60°	321
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P250319

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBN0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1452.2	14.3
10°-20°	3156.3	31.2
20°-30°	3388.5	33.5
30°-40°	1831.4	18.1
40°-50°	285.7	2.8
50°-60°	7.8	0.1
60°-70°	1.9	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	7997.1	79.0
0°-40°	9828.5	97.1
0°-60°	10122.1	100.0
0°-90°	10124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10124.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16177	
5°	15858	###
15°	11270	3156
25°	7511	3389
35°	2877	1831
45°	264	286
55°	0	8
65°	0	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P250319

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	16177.2
1°	16207.8
2°	16192.6
3°	16137.2
4°	16030.6
5°	15858.1
6°	15620.5
7°	15301.0
8°	14900.9
9°	14440.5
10°	13928.5
11°	13391.5
12°	12834.4
13°	12277.8
14°	11760.6
15°	11269.5
16°	10818.6
17°	10383.0
18°	9977.8
19°	9598.4
20°	9233.4
21°	8878.7
22°	8544.2
23°	8210.4
24°	7861.0
25°	7511.2
26°	7156.5
27°	6751.6
28°	6305.6
29°	5850.4
30°	5374.0
31°	4862.5
32°	4350.5
33°	3844.2
34°	3332.7
35°	2876.7
37.5°	1838.5
40°	1063.7
42.5°	567.4
45°	263.6
47.5°	142.1
50°	45.9
52.5°	5.2
55°	0.0
57.5°	5.2



TEST NUMBER: P250319

CATALOG NUMBER: LSR8B120D010 EC8B120850 8LBN0GPH

CANDELA DISTRIBUTION (continued):

	0°
60°	5.2
62.5°	0.0
65°	0.0
67.5°	5.2
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)