

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: P249801

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11105.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

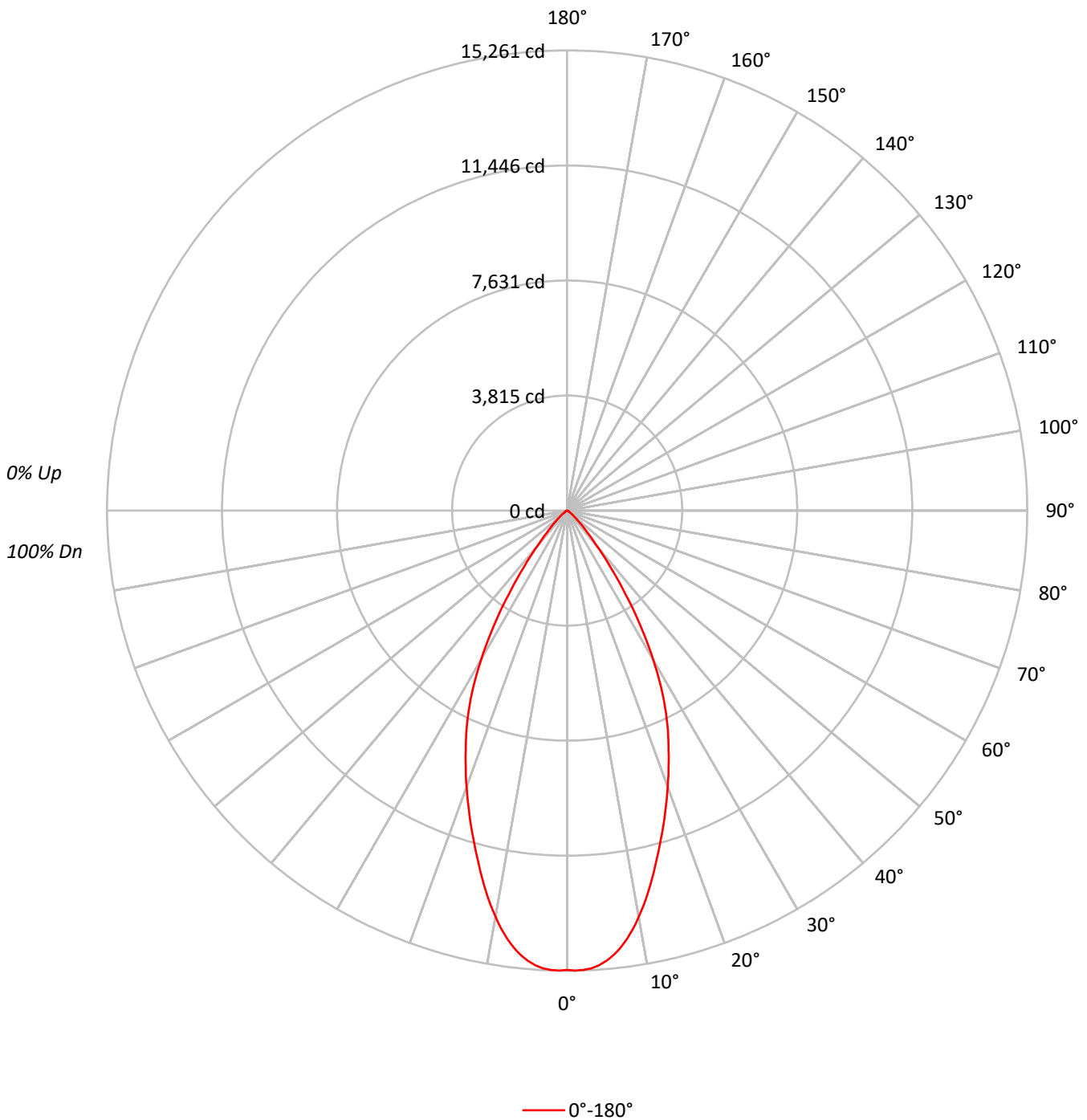
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74	81	77	74	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	469674
5°	463909
10°	428439
15°	373592
20°	320015
25°	267872
30°	203795
35°	126330
40°	62325
45°	29663
50°	14421
55°	7070
60°	4403
65°	3013
70°	1695
75°	1346
80°	1332
85°	1344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.9	12.5
10°-20°	3260.8	29.4
20°-30°	3563.9	32.1
30°-40°	2120.8	19.1
40°-50°	581.7	5.2
50°-60°	131.8	1.2
60°-70°	40.7	0.4
70°-80°	12.4	0.1
80°-90°	4.1	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°	8213.5	74.0
0°-40°	10334.3	93.1
0°-60°	11047.8	99.5
0°-90°	11105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11105.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15231	
5°	14987	###
15°	11702	3261
25°	7873	3564
35°	3356	2121
45°	680	582
55°	132	132
65°	41	41
75°	11	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15231.2
1°	15261.3
2°	15242.5
3°	15204.9
4°	15118.5
5°	14987.0
6°	14817.8
7°	14592.4
8°	14329.3
9°	14024.9
10°	13682.9
11°	13318.4
12°	12927.6
13°	12525.5
14°	12108.3
15°	11702.5
16°	11304.1
17°	10913.3
18°	10522.4
19°	10131.6
20°	9752.0
22.5°	8797.5
25°	7873.0
27.5°	6854.6
30°	5723.5
32.5°	4509.6
35°	3355.9
37.5°	2333.7
40°	1548.3
42.5°	1014.7
45°	680.2
47.5°	451.0
50°	300.6
52.5°	184.1
55°	131.5
57.5°	94.0
60°	71.4
62.5°	52.6
65°	41.3
67.5°	26.3
70°	18.8
72.5°	15.0
75°	11.3
77.5°	7.5
80°	7.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	3.8
85°	3.8
87.5°	3.8
90°	0.0

(END OF REPORT)