

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: P249808

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249808
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 EC8B120840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11032.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

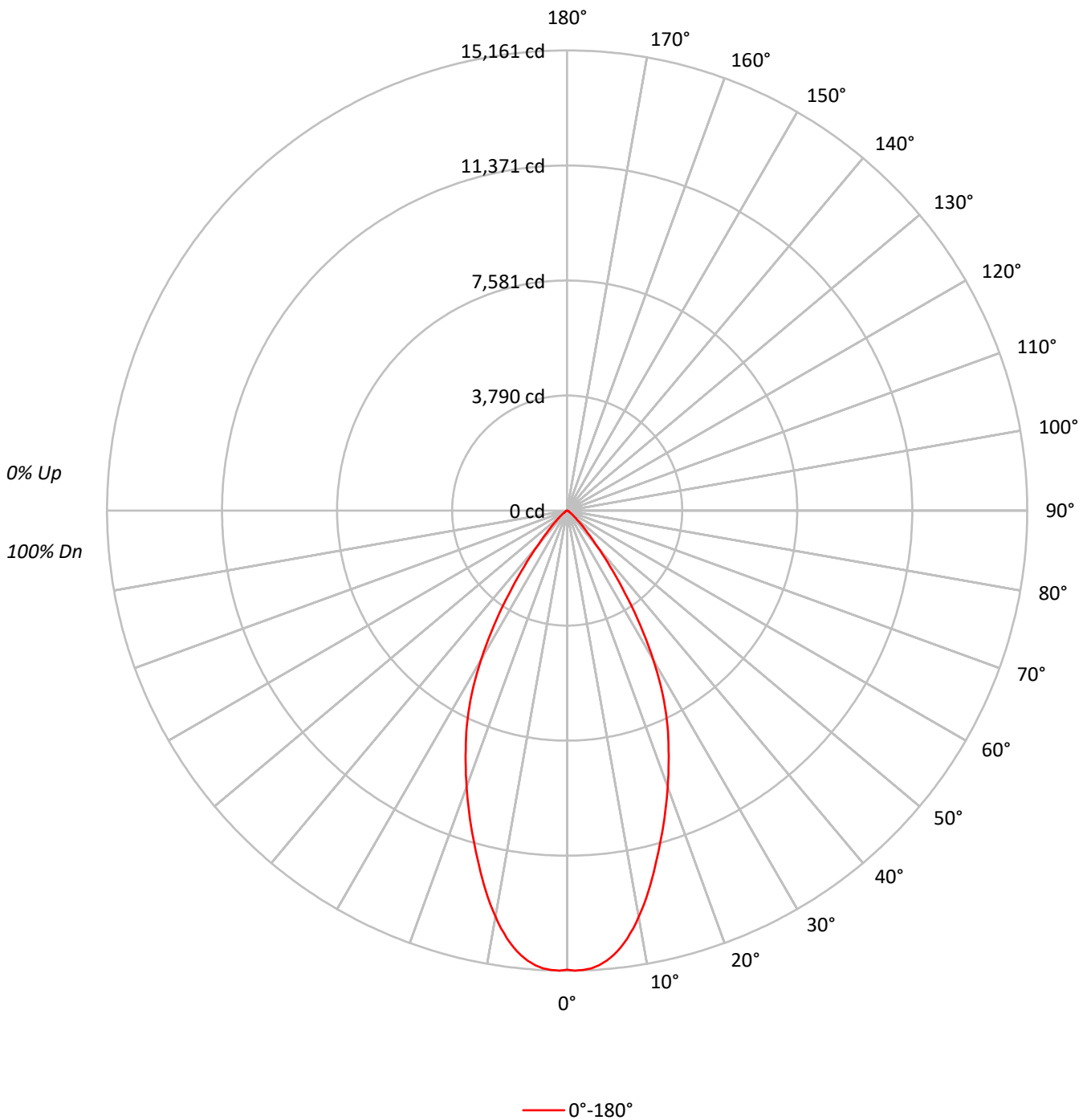
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	466587
5°	460857
10°	425624
15°	371134
20°	317912
25°	266113
30°	202453
35°	125498
40°	61915
45°	29467
50°	14329
55°	7027
60°	4373
65°	2999
70°	1686
75°	1334
80°	1332
85°	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1379.8	12.5
10°-20°	3239.3	29.4
20°-30°	3540.4	32.1
30°-40°	2106.8	19.1
40°-50°	577.9	5.2
50°-60°	130.9	1.2
60°-70°	40.4	0.4
70°-80°	12.3	0.1
80°-90°	4.0	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°	8159.5	74.0
0°-40°	10266.4	93.1
0°-60°	10975.2	99.5
0°-90°	11032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11032.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15131	
5°	14888	###
15°	11626	3239
25°	7821	3540
35°	3334	2107
45°	676	578
55°	131	131
65°	41	40
75°	11	12
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15131.1
1°	15161.0
2°	15142.3
3°	15105.0
4°	15019.1
5°	14888.4
6°	14720.4
7°	14496.4
8°	14235.1
9°	13932.7
10°	13593.0
11°	13230.9
12°	12842.6
13°	12443.1
14°	12028.7
15°	11625.5
16°	11229.8
17°	10841.5
18°	10453.3
19°	10065.0
20°	9687.9
22.5°	8739.7
25°	7821.3
27.5°	6809.6
30°	5685.8
32.5°	4480.0
35°	3333.8
37.5°	2318.4
40°	1538.1
42.5°	1008.0
45°	675.7
47.5°	448.0
50°	298.7
52.5°	182.9
55°	130.7
57.5°	93.3
60°	70.9
62.5°	52.3
65°	41.1
67.5°	26.1
70°	18.7
72.5°	14.9
75°	11.2
77.5°	7.5
80°	7.5



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	3.7
85°	3.7
87.5°	3.7
90°	0.0

(END OF REPORT)