

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: P250088

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9770.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

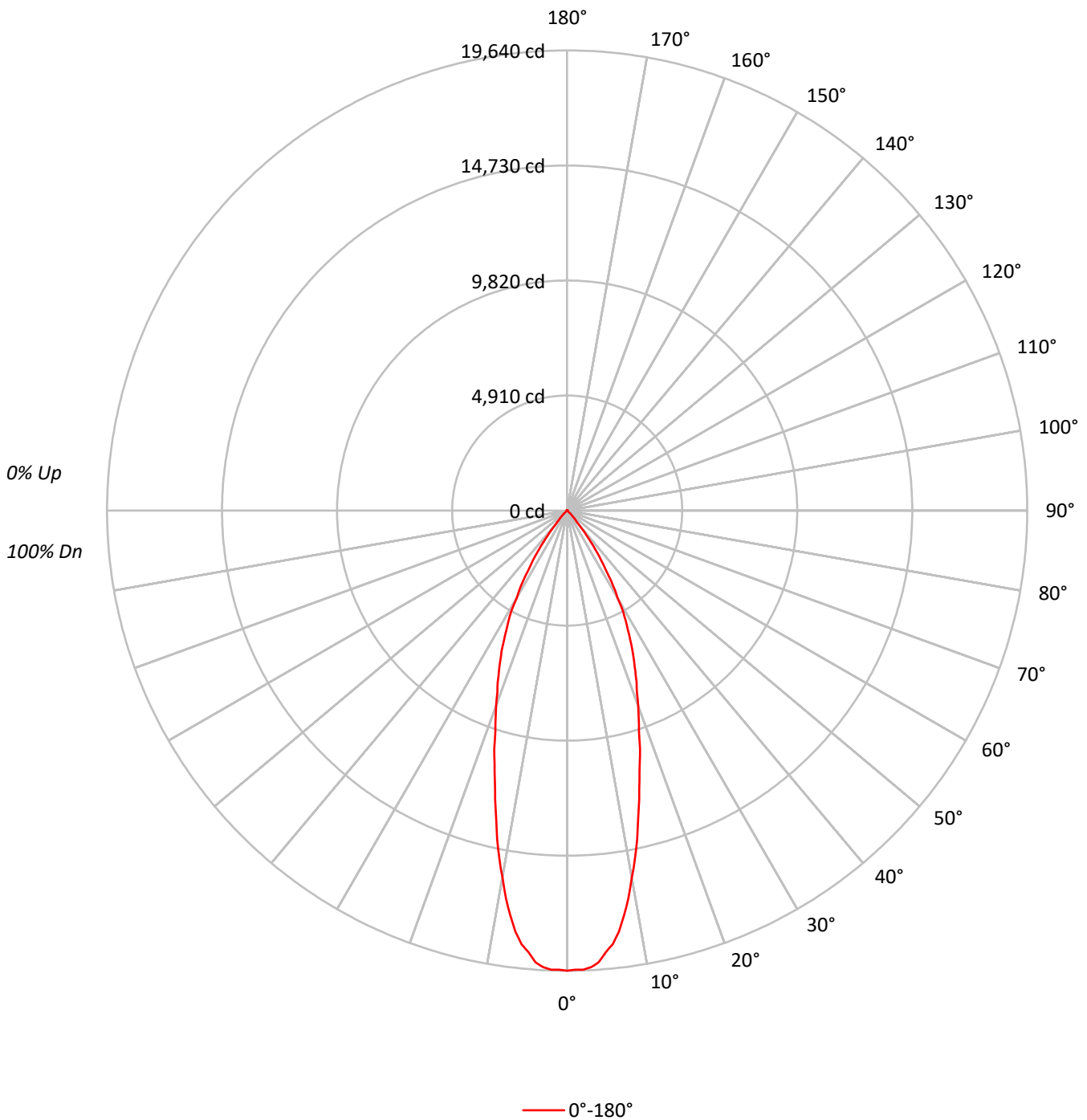
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	605628
5°	585673
10°	498080
15°	380155
20°	290534
25°	225141
30°	153554
35°	90218
40°	27586
45°	10850
50°	163
55°	183
60°	210
65°	496
70°	929
75°	810
80°	604
85°	3644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1715.3	17.6
10°-20°	3323.8	34.0
20°-30°	2992.5	30.6
30°-40°	1480.6	15.2
40°-50°	225.2	2.3
50°-60°	9.2	0.1
60°-70°	11.9	0.1
70°-80°	4.5	0.0
80°-90°	7.0	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°	8031.6	82.2
0°-40°	9512.1	97.4
0°-60°	9746.6	99.8
0°-90°	9770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9770.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19640	
5°	18921	###
15°	11908	3324
25°	6617	2992
35°	2397	1481
45°	249	225
55°	3	9
65°	7	12
75°	7	4
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	19640.1
1°	19599.2
2°	19609.3
3°	19510.4
4°	19329.8
5°	18920.7
6°	18607.1
7°	18109.4
8°	17441.2
9°	16745.7
10°	15907.0
11°	15157.0
12°	14352.5
13°	13462.7
14°	12695.6
15°	11908.1
16°	11236.5
17°	10643.3
18°	9913.8
19°	9378.5
20°	8853.6
21°	8308.0
22°	7909.2
23°	7445.5
24°	7019.4
25°	6617.1
26°	6143.2
27°	5717.2
28°	5335.3
29°	4915.9
30°	4312.5
31°	3971.7
32°	3542.1
33°	3071.6
34°	2713.6
35°	2396.6
37.5°	1517.0
40°	685.3
42.5°	467.1
45°	248.8
47.5°	139.7
50°	3.4
52.5°	13.7
55°	3.4
57.5°	20.5



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.4
62.5°	17.1
65°	6.8
67.5°	17.1
70°	10.3
72.5°	3.4
75°	6.8
77.5°	0.0
80°	3.4
82.5°	13.7
85°	10.3
87.5°	0.0
90°	0.0

(END OF REPORT)