

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: P249969

Luminaire Tested: **LSR8B120D010 EC8B120835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10862.1 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

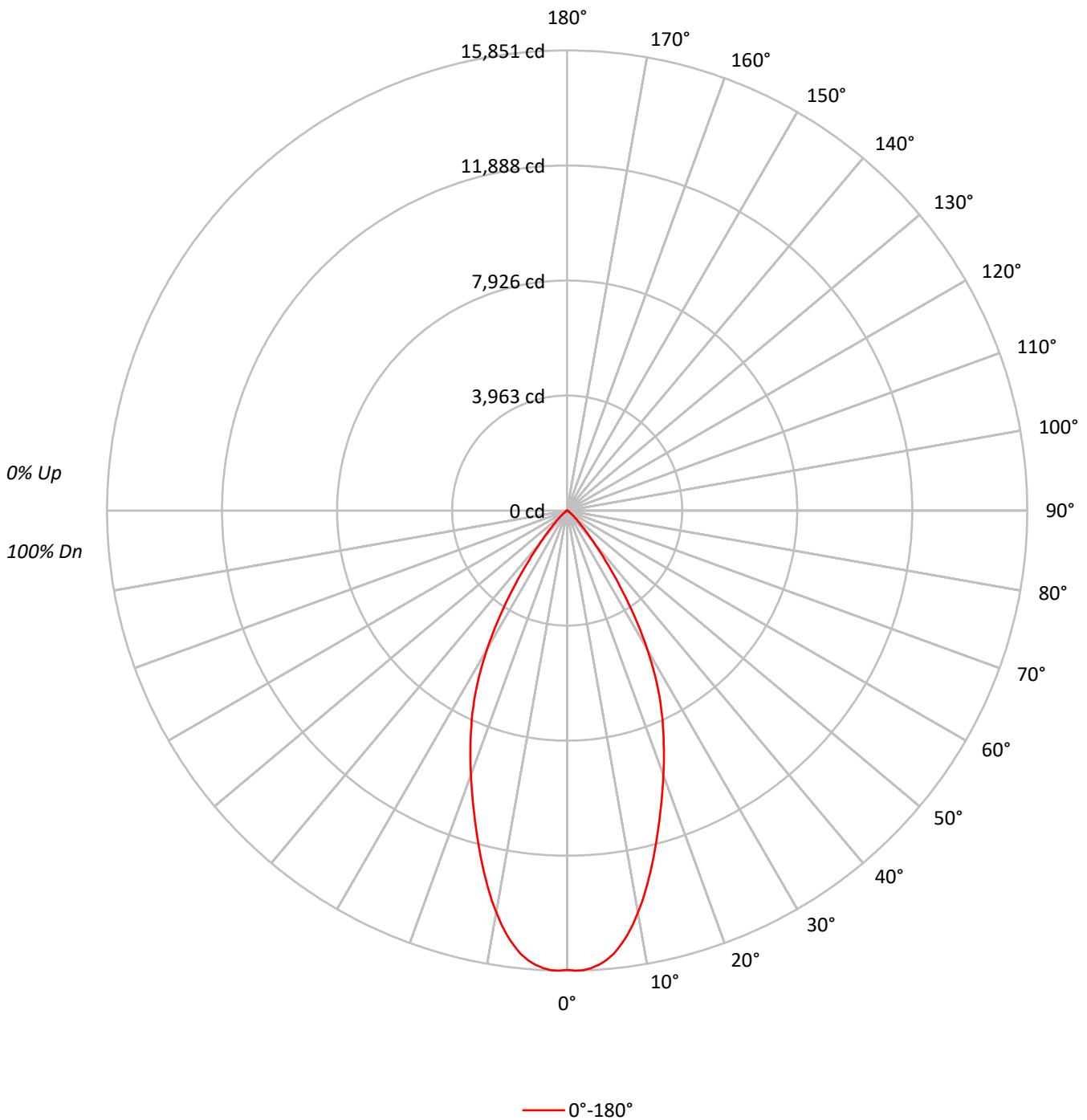
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	487852
5°	481058
10°	440100
15°	377863
20°	318200
25°	262904
30°	197201
35°	117544
40°	56001
45°	24399
50°	11063
55°	4876
60°	2794
65°	1664
70°	1713
75°	0
80°	675
85°	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1435.9	13.2
10°-20°	3294.5	30.3
20°-30°	3500.1	32.2
30°-40°	1997.0	18.4
40°-50°	495.1	4.6
50°-60°	97.4	0.9
60°-70°	29.4	0.3
70°-80°	7.0	0.1
80°-90°	5.7	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°	8230.5	75.8
0°-40°	10227.5	94.2
0°-60°	10820.0	99.6
0°-90°	10862.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10862.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15821	
5°	15541	###
15°	11836	3295
25°	7727	3500
35°	3122	1997
45°	560	495
55°	91	97
65°	23	29
75°	0	7
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15820.7
1°	15851.1
2°	15839.7
3°	15783.0
4°	15684.8
5°	15541.0
6°	15352.1
7°	15091.2
8°	14792.5
9°	14441.1
10°	14055.3
11°	13647.2
12°	13208.5
13°	12762.5
14°	12305.1
15°	11836.3
16°	11394.0
17°	10947.9
18°	10528.3
19°	10101.2
20°	9696.7
22.5°	8694.8
25°	7727.0
27.5°	6687.5
30°	5538.3
32.5°	4305.8
35°	3122.5
37.5°	2151.0
40°	1391.2
42.5°	880.9
45°	559.5
47.5°	366.8
50°	230.6
52.5°	140.0
55°	90.7
57.5°	71.9
60°	45.3
62.5°	41.5
65°	22.8
67.5°	22.8
70°	19.0
72.5°	11.4
75°	0.0
77.5°	3.8
80°	3.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	7.6
85°	7.6
87.5°	3.8
90°	0.0

(END OF REPORT)