

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: P249983

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249983
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 EC8B120850 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11002.9 lumens
Efficiency: N/A
Efficacy: 93.0 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

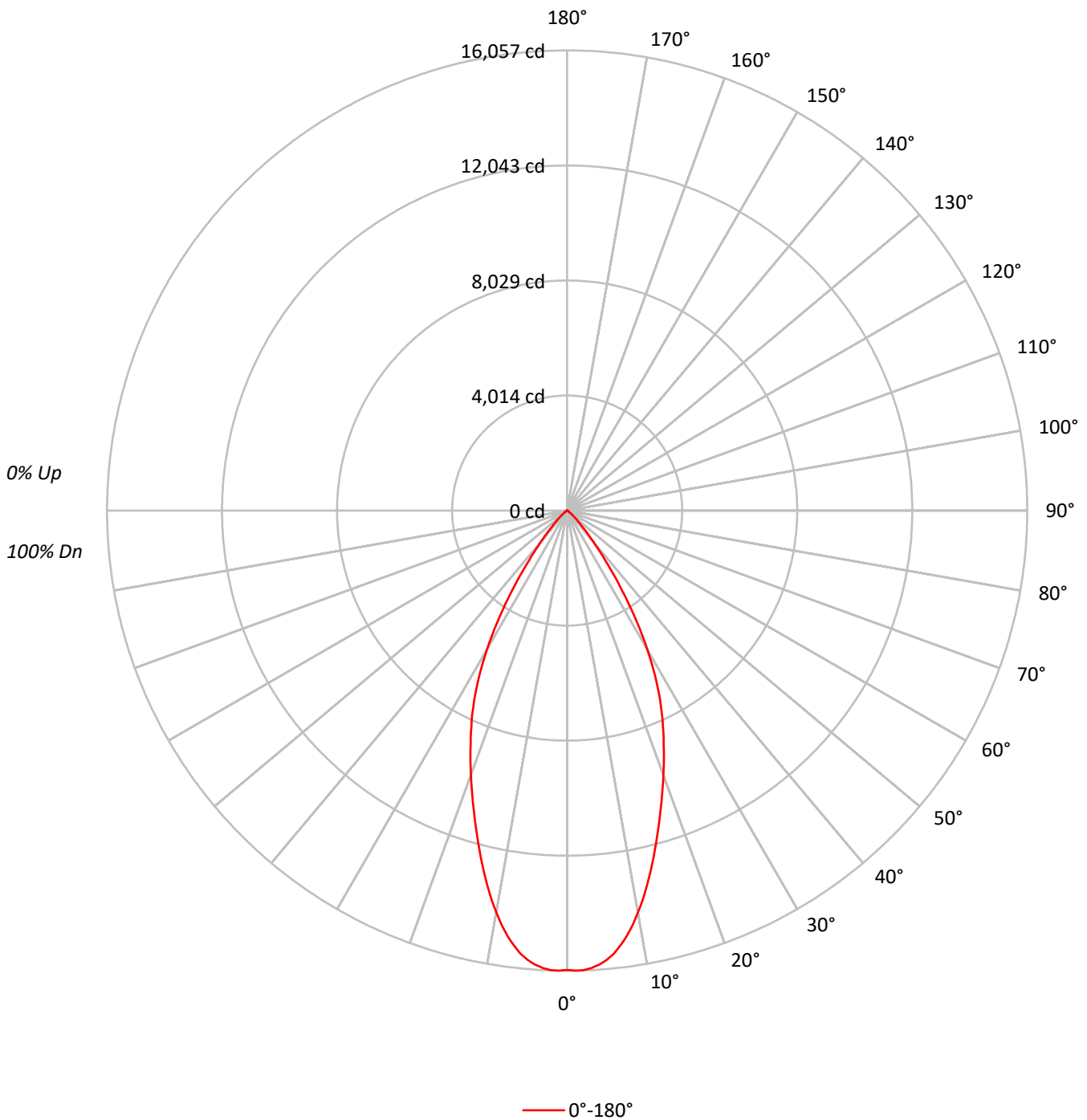
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	494186
5°	487304
10°	445814
15°	382767
20°	322328
25°	266317
30°	199761
35°	119072
40°	56730
45°	24713
50°	11206
55°	4935
60°	2831
65°	1678
70°	1731
75°	0
80°	675
85°	2724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1454.6	13.2
10°-20°	3337.3	30.3
20°-30°	3545.5	32.2
30°-40°	2022.9	18.4
40°-50°	501.5	4.6
50°-60°	98.6	0.9
60°-70°	29.7	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°	8337.4	75.8
0°-40°	10360.2	94.2
0°-60°	10960.4	99.6
0°-90°	11002.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11002.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16026	
5°	15743	###
15°	11990	3337
25°	7827	3545
35°	3163	2023
45°	567	502
55°	92	99
65°	23	30
75°	0	7
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16026.1
1°	16056.8
2°	16045.3
3°	15987.9
4°	15888.4
5°	15742.8
6°	15551.4
7°	15287.1
8°	14984.5
9°	14628.5
10°	14237.8
11°	13824.3
12°	13380.0
13°	12928.2
14°	12464.8
15°	11989.9
16°	11541.9
17°	11090.1
18°	10664.9
19°	10232.3
20°	9822.5
22.5°	8807.6
25°	7827.3
27.5°	6774.3
30°	5610.2
32.5°	4361.6
35°	3163.1
37.5°	2178.9
40°	1409.3
42.5°	892.3
45°	566.7
47.5°	371.5
50°	233.6
52.5°	141.8
55°	91.8
57.5°	72.8
60°	45.9
62.5°	42.1
65°	23.0
67.5°	23.0
70°	19.2
72.5°	11.5
75°	0.0
77.5°	3.8
80°	3.8



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	7.7
85°	7.7
87.5°	3.8
90°	0.0

(END OF REPORT)