

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: P249899

Luminaire Tested: **LSR8B120D010 EC8B120850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12143.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

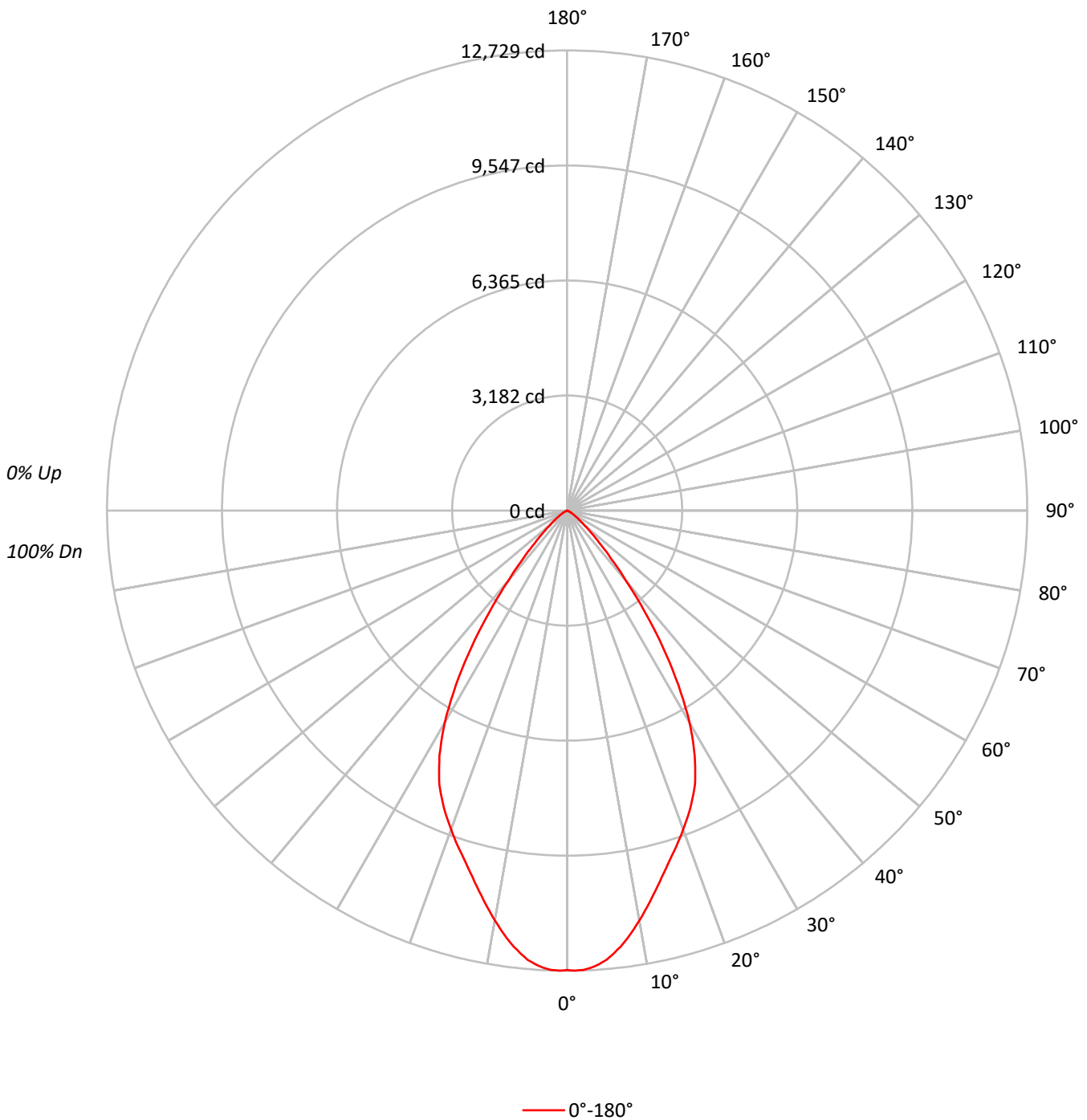
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391923
5°	386152
10°	360379
15°	330791
20°	308087
25°	284642
30°	241381
35°	173645
40°	102293
45°	54668
50°	28525
55°	16085
60°	8875
65°	5253
70°	2389
75°	1358
80°	675
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.7	9.5
10°-20°	2915.3	24.0
20°-30°	3784.7	31.2
30°-40°	2856.6	23.5
40°-50°	1045.3	8.6
50°-60°	292.2	2.4
60°-70°	76.8	0.6
70°-80°	12.9	0.1
80°-90°	0.5	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°	7858.7	64.7
0°-40°	10715.3	88.2
0°-60°	12052.8	99.3
0°-90°	12143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12143.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12710	
5°	12475	###
15°	10362	2915
25°	8366	3785
35°	4613	2857
45°	1254	1045
55°	299	292
65°	72	77
75°	11	13
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12709.8
1°	12728.8
2°	12713.6
3°	12664.4
4°	12581.1
5°	12475.0
6°	12319.7
7°	12149.3
8°	11952.4
9°	11736.5
10°	11509.3
11°	11282.1
12°	11047.2
13°	10808.7
14°	10581.4
15°	10361.8
16°	10153.5
17°	9952.7
18°	9771.0
19°	9581.6
20°	9388.5
22.5°	8907.5
25°	8365.9
27.5°	7650.1
30°	6779.1
32.5°	5730.0
35°	4612.8
37.5°	3522.1
40°	2541.2
42.5°	1798.9
45°	1253.6
47.5°	882.4
50°	594.6
52.5°	435.5
55°	299.2
57.5°	215.9
60°	143.9
62.5°	106.0
65°	72.0
67.5°	49.2
70°	26.5
72.5°	18.9
75°	11.4
77.5°	3.8
80°	3.8



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)