

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: P249919

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249919
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: LSR8B100D010 EC8B100935 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9018.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

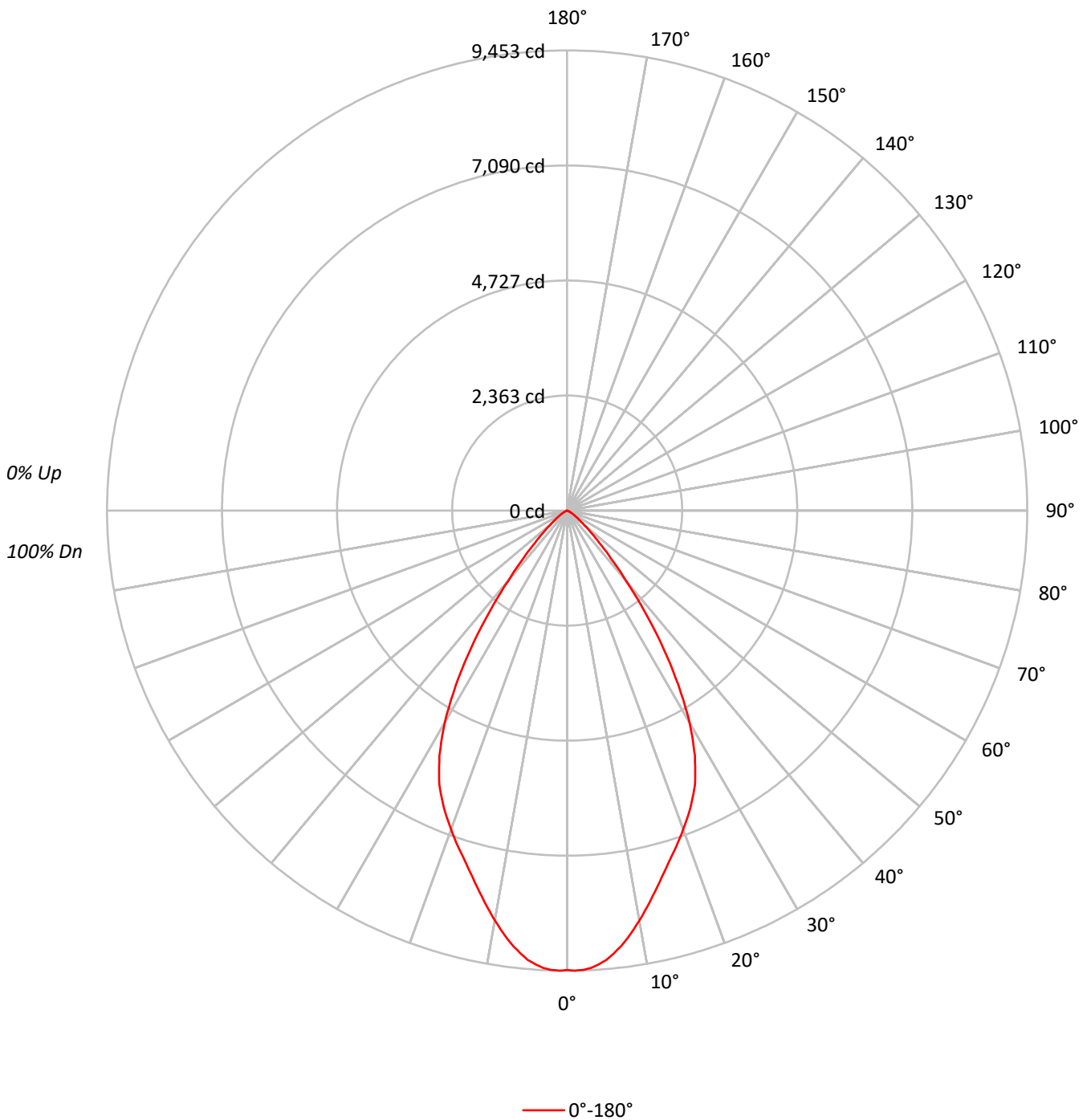
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	291064
5°	286777
10°	267636
15°	245662
20°	228798
25°	211388
30°	179262
35°	128958
40°	75967
45°	40600
50°	21185
55°	11946
60°	6593
65°	3896
70°	1776
75°	1001
80°	497
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.5	9.5
10°-20°	2165.1	24.0
20°-30°	2810.7	31.2
30°-40°	2121.5	23.5
40°-50°	776.3	8.6
50°-60°	217.0	2.4
60°-70°	57.1	0.6
70°-80°	9.6	0.1
80°-90°	0.4	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°	5836.3	64.7
0°-40°	7957.7	88.2
0°-60°	8951.0	99.3
0°-90°	9018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9018.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9439	
5°	9265	861
15°	7695	2165
25°	6213	2811
35°	3426	2121
45°	931	776
55°	222	217
65°	53	57
75°	8	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9439.0
1°	9453.0
2°	9441.8
3°	9405.2
4°	9343.3
5°	9264.6
6°	9149.3
7°	9022.7
8°	8876.4
9°	8716.1
10°	8547.4
11°	8378.6
12°	8204.2
13°	8027.0
14°	7858.3
15°	7695.2
16°	7540.5
17°	7391.4
18°	7256.4
19°	7115.8
20°	6972.3
22.5°	6615.1
25°	6212.9
27.5°	5681.4
30°	5034.5
32.5°	4255.4
35°	3425.7
37.5°	2615.7
40°	1887.2
42.5°	1336.0
45°	931.0
47.5°	655.3
50°	441.6
52.5°	323.4
55°	222.2
57.5°	160.3
60°	106.9
62.5°	78.8
65°	53.4
67.5°	36.6
70°	19.7
72.5°	14.1
75°	8.4
77.5°	2.8
80°	2.8



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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)