

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: P249891

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249891
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 EC8B100840 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10506.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

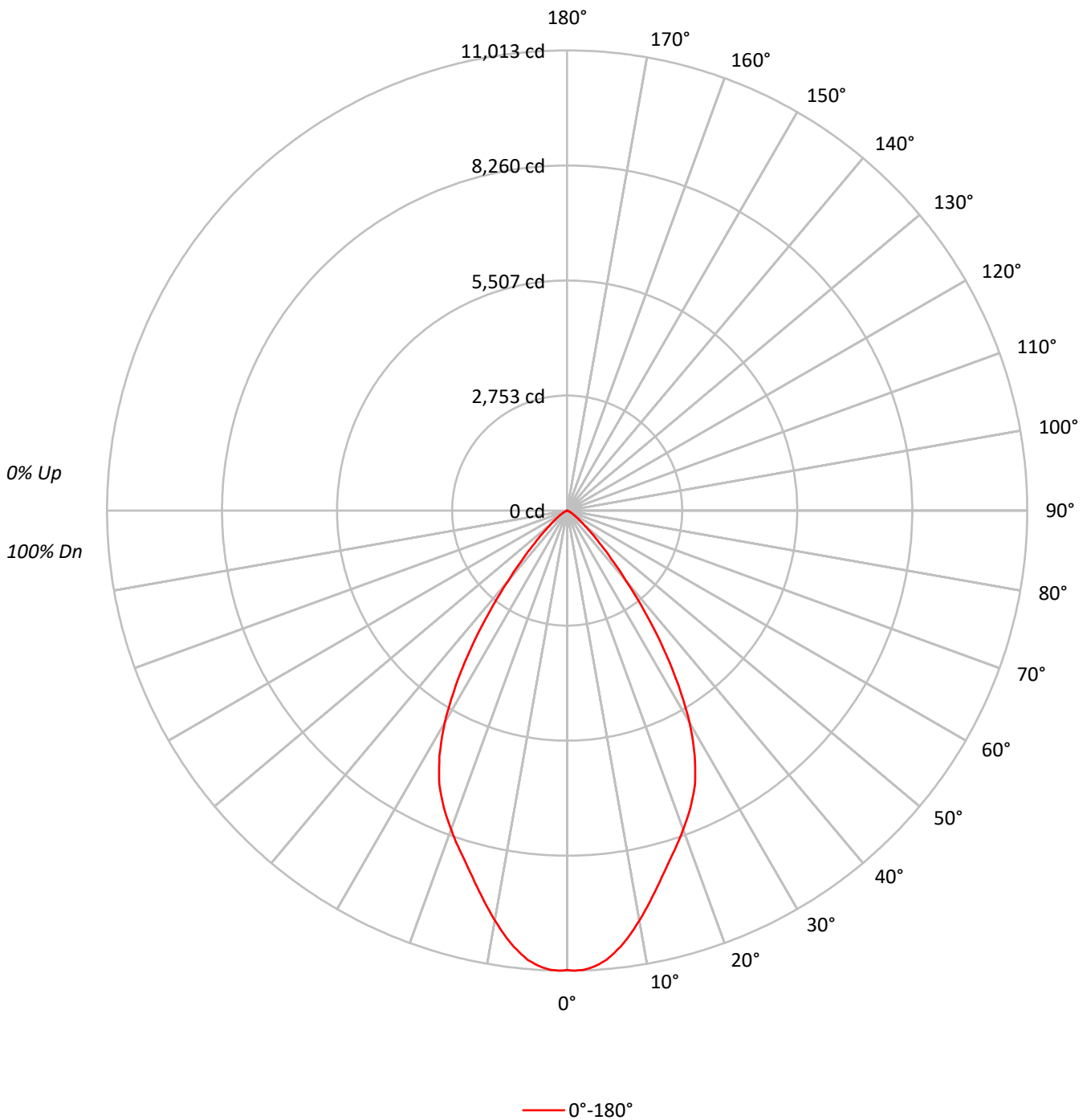
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	339088
5°	334097
10°	311796
15°	286196
20°	266552
25°	246270
30°	208840
35°	150238
40°	88502
45°	47298
50°	24677
55°	13919
60°	7678
65°	4546
70°	2065
75°	1168
80°	586
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.5	9.5
10°-20°	2522.3	24.0
20°-30°	3274.5	31.2
30°-40°	2471.5	23.5
40°-50°	904.4	8.6
50°-60°	252.8	2.4
60°-70°	66.4	0.6
70°-80°	11.2	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°	6799.3	64.7
0°-40°	9270.8	88.2
0°-60°	10428.0	99.3
0°-90°	10506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10506.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10996	
5°	10793	###
15°	8965	2522
25°	7238	3274
35°	3991	2472
45°	1085	904
55°	259	253
65°	62	66
75°	10	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10996.4
1°	11012.8
2°	10999.7
3°	10957.1
4°	10885.0
5°	10793.3
6°	10658.9
7°	10511.5
8°	10341.1
9°	10154.3
10°	9957.7
11°	9761.1
12°	9558.0
13°	9351.5
14°	9154.9
15°	8964.9
16°	8784.7
17°	8611.0
18°	8453.7
19°	8289.9
20°	8122.8
22.5°	7706.7
25°	7238.1
27.5°	6618.8
30°	5865.2
32.5°	4957.6
35°	3991.0
37.5°	3047.3
40°	2198.6
42.5°	1556.4
45°	1084.6
47.5°	763.5
50°	514.4
52.5°	376.8
55°	258.9
57.5°	186.8
60°	124.5
62.5°	91.7
65°	62.3
67.5°	42.6
70°	22.9
72.5°	16.4
75°	9.8
77.5°	3.3
80°	3.3



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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)