

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: P249933

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249933
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 EC8B100950 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9752.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

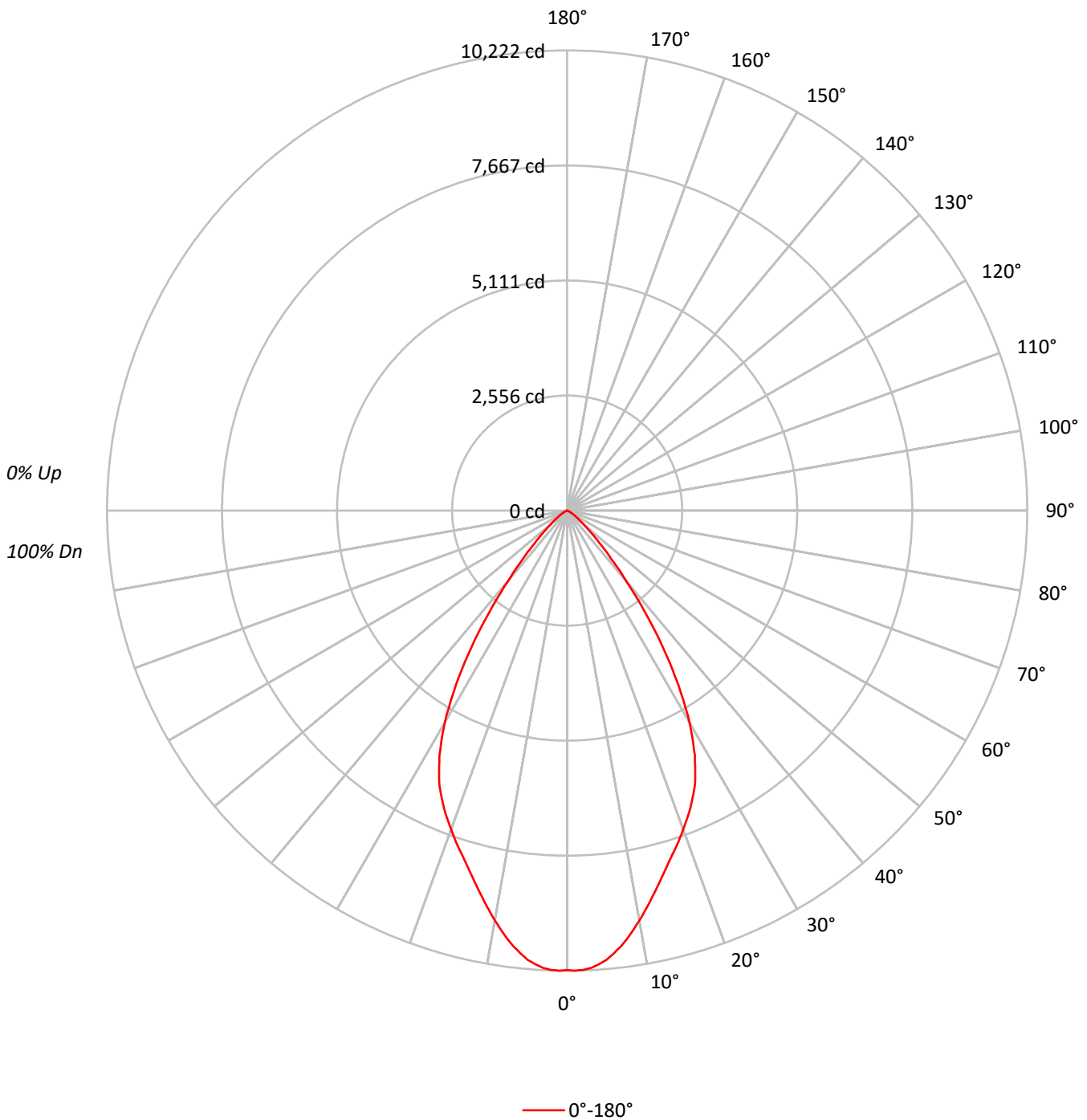
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	314752
5°	310117
10°	289420
15°	265656
20°	247421
25°	228594
30°	193854
35°	139453
40°	82150
45°	43901
50°	22907
55°	12919
60°	7129
65°	4217
70°	1920
75°	1084
80°	533
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.6	9.5
10°-20°	2341.3	24.0
20°-30°	3039.5	31.2
30°-40°	2294.1	23.5
40°-50°	839.4	8.6
50°-60°	234.7	2.4
60°-70°	61.7	0.6
70°-80°	10.4	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°	6311.3	64.7
0°-40°	8605.4	88.2
0°-60°	9679.6	99.3
0°-90°	9752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9752.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10207	
5°	10019	931
15°	8322	2341
25°	6719	3039
35°	3704	2294
45°	1007	839
55°	240	235
65°	58	62
75°	9	10
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10207.2
1°	10222.4
2°	10210.3
3°	10170.7
4°	10103.8
5°	10018.6
6°	9893.9
7°	9757.1
8°	9598.9
9°	9425.6
10°	9243.1
11°	9060.6
12°	8872.0
13°	8680.4
14°	8497.9
15°	8321.5
16°	8154.2
17°	7993.0
18°	7847.0
19°	7695.0
20°	7539.8
22.5°	7153.6
25°	6718.6
27.5°	6143.8
30°	5444.3
32.5°	4601.8
35°	3704.5
37.5°	2828.6
40°	2040.8
42.5°	1444.7
45°	1006.7
47.5°	708.7
50°	477.5
52.5°	349.8
55°	240.3
57.5°	173.4
60°	115.6
62.5°	85.2
65°	57.8
67.5°	39.5
70°	21.3
72.5°	15.2
75°	9.1
77.5°	3.0
80°	3.0



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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)