

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: P246952

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100827 8LBMOLI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10487.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

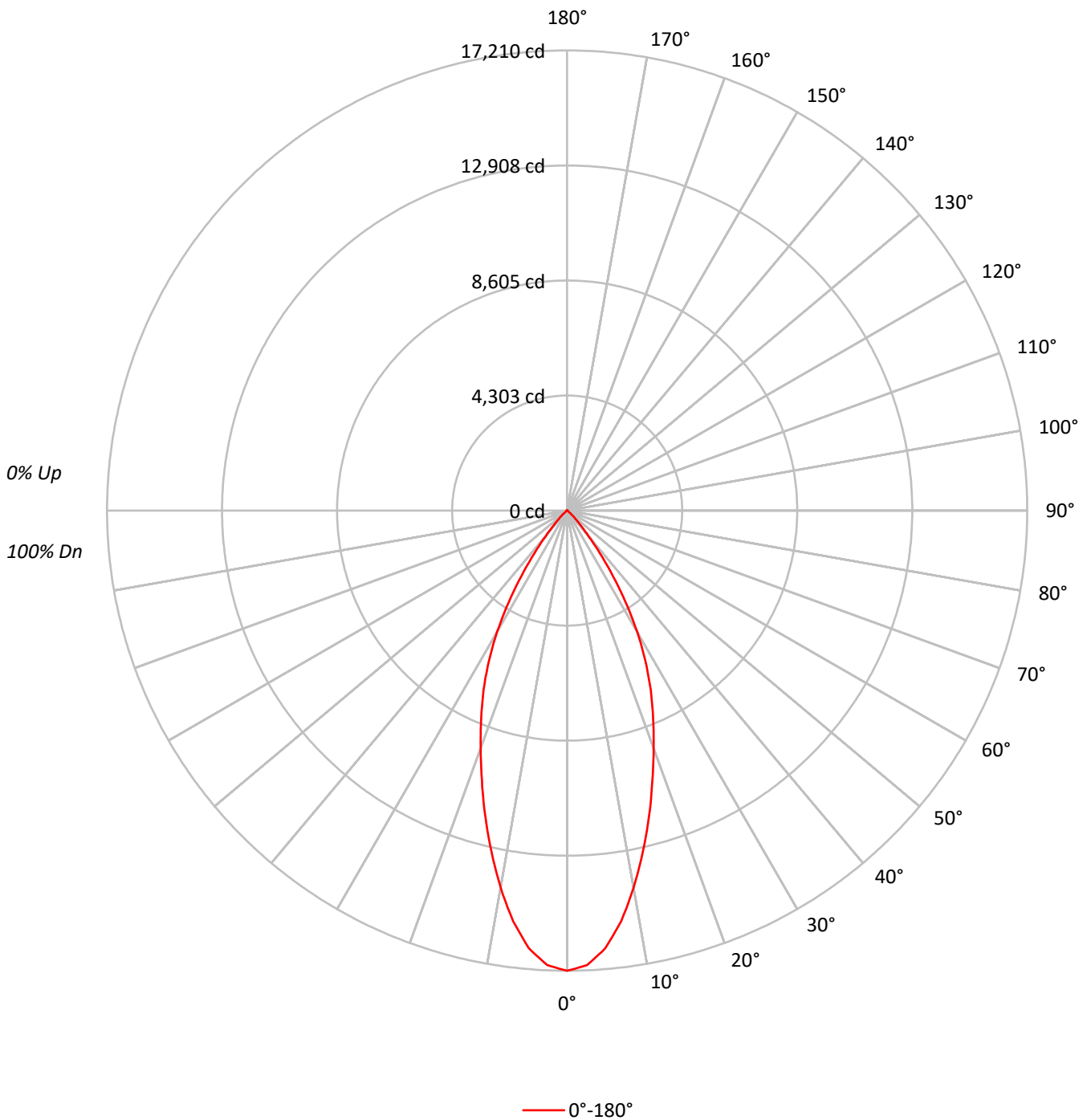
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94		96	94	92		94	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87		91	88	86		89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81		87	83	80		85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76		82	78	75		81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71		78	74	71		77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67		74	70	67		73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	63		71	66	63		70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60		67	63	60		67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57		64	60	57		64	60	57	55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	530678
5°	508551
10°	448429
15°	377914
20°	310292
25°	251496
30°	186184
35°	112074
40°	49911
45°	19406
50°	6961
55°	2032
60°	1431
65°	1065
70°	108
75°	584
80°	0
85°	1734



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1499.9	14.3
10°-20°	3288.0	31.4
20°-30°	3353.3	32.0
30°-40°	1878.1	17.9
40°-50°	400.5	3.8
50°-60°	49.6	0.5
60°-70°	12.9	0.1
70°-80°	3.1	0.0
80°-90°	1.7	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°	8141.2	77.6
0°-40°	10019.2	95.5
0°-60°	10469.3	99.8
0°-90°	10487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10487.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17210	
5°	16429	###
15°	11838	3288
25°	7392	3353
35°	2977	1878
45°	445	400
55°	38	50
65°	15	13
75°	5	3
85°	5	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17209.5
2.5°	17015.7
5°	16429.2
7.5°	15485.6
10°	14321.3
12.5°	13071.7
15°	11837.9
17.5°	10596.8
20°	9455.7
22.5°	8393.8
25°	7391.7
27.5°	6339.6
30°	5228.9
32.5°	4068.3
35°	2977.2
37.5°	1994.5
40°	1239.9
42.5°	741.2
45°	445.0
47.5°	247.5
50°	145.1
52.5°	76.8
55°	37.8
57.5°	26.8
60°	23.2
62.5°	11.0
65°	14.6
67.5°	14.6
70°	1.2
72.5°	3.7
75°	4.9
77.5°	2.4
80°	0.0
82.5°	1.2
85°	4.9
87.5°	0.0
90°	0.0

(END OF REPORT)