

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: P247032

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9222.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

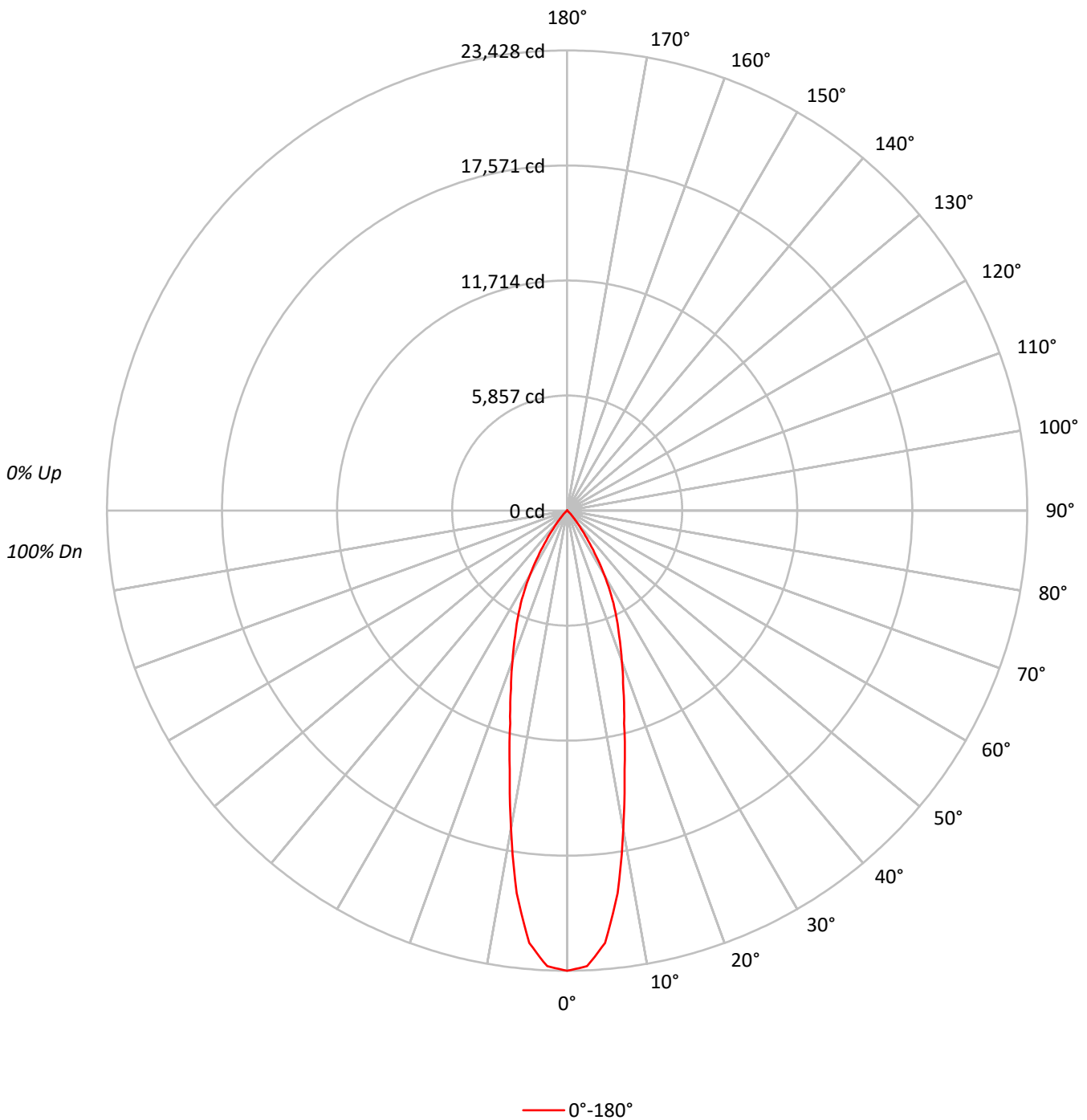
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85
4	101	94	90	86	99	93	89	85	91	87	84	89	86	83	87	85	83	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73
7	89	81	76	72	88	81	76	72	79	75	72	78	74	72	77	74	71	70
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67
9	82	74	69	66	81	74	69	66	73	69	65	72	68	65	71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	722418
5°	683980
10°	515120
15°	358045
20°	266907
25°	200899
30°	134337
35°	70316
40°	27159
45°	10043
50°	2552
55°	500
60°	74
65°	255
70°	316
75°	0
80°	0
85°	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1921.4	20.8
10°-20°	3177.5	34.5
20°-30°	2678.8	29.0
30°-40°	1215.6	13.2
40°-50°	212.2	2.3
50°-60°	11.5	0.1
60°-70°	1.8	0.0
70°-80°	2.0	0.0
80°-90°	1.3	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°	7777.7	84.3
0°-40°	8993.3	97.5
0°-60°	9217.0	99.9
0°-90°	9222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9222.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	23428	
5°	22097	###
15°	11216	3178
25°	5905	2679
35°	1868	1216
45°	230	212
55°	9	12
65°	4	2
75°	0	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	23427.5
2.5°	23220.3
5°	22096.6
7.5°	19648.8
10°	16451.2
12.5°	13495.4
15°	11215.5
17.5°	9502.7
20°	8133.6
22.5°	6928.8
25°	5904.6
27.5°	4863.0
30°	3772.8
32.5°	2746.3
35°	1867.9
37.5°	1146.9
40°	674.7
42.5°	395.8
45°	230.3
47.5°	137.7
50°	53.2
52.5°	8.1
55°	9.3
57.5°	8.1
60°	1.2
62.5°	1.2
65°	3.5
67.5°	0.0
70°	3.5
72.5°	5.8
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.2
87.5°	3.5
90°	0.0

(END OF REPORT)