

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: P243878

Luminaire Tested: **LSR8B20D010 EC8B20830 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B20D010 EC8B20830 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2050.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

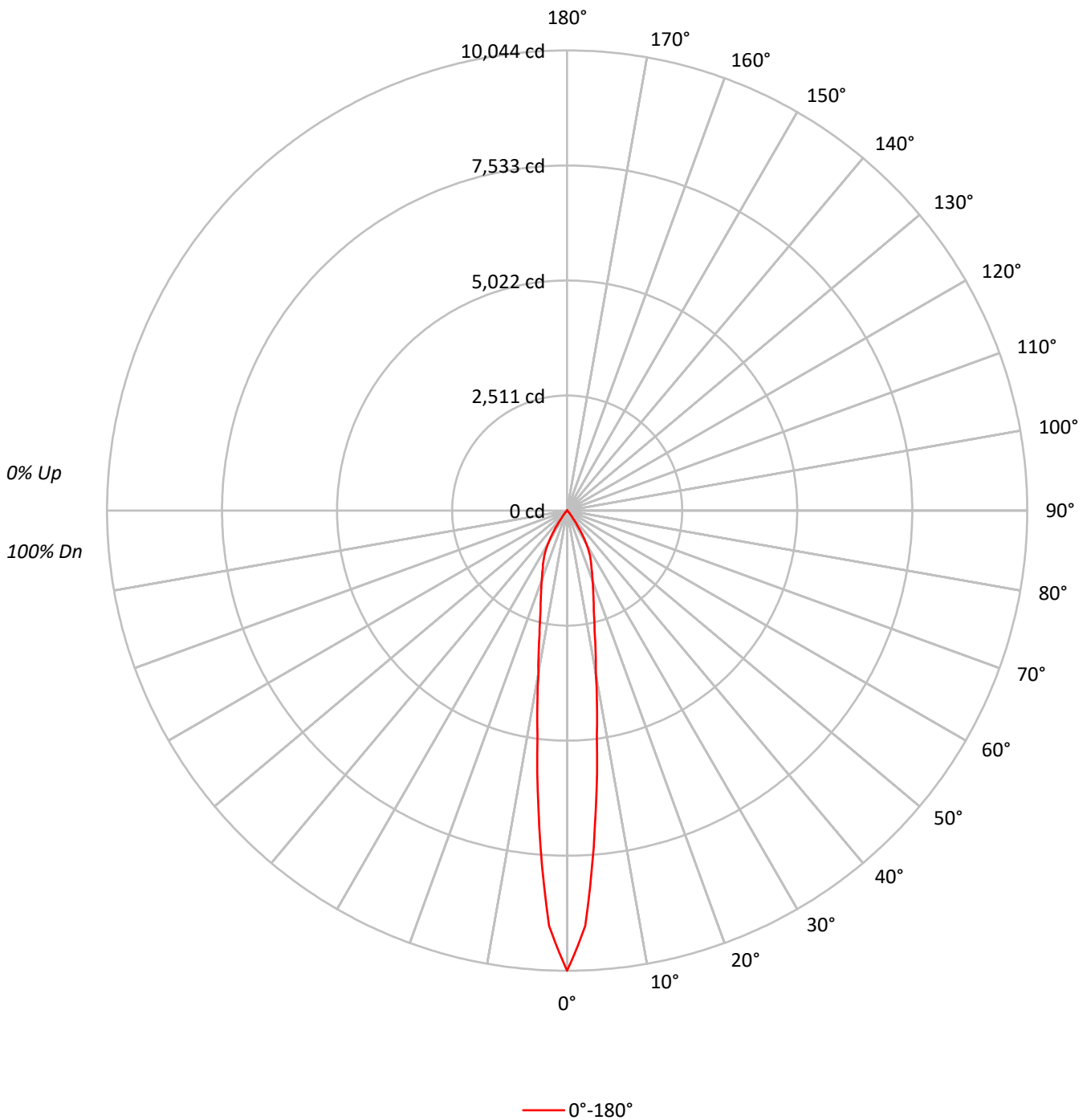
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	309708
5°	215109
10°	113196
15°	71619
20°	53223
25°	41843
30°	30127
35°	12927
40°	4504
45°	1727
50°	398
55°	151
60°	0
65°	204
70°	63
75°	167
80°	249
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.1	27.2
10°-20°	647.3	31.6
20°-30°	558.7	27.3
30°-40°	242.4	11.8
40°-50°	38.0	1.9
50°-60°	2.8	0.1
60°-70°	1.5	0.1
70°-80°	1.6	0.1
80°-90°	0.8	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
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0°-30°	1763.1	86.0
0°-40°	2005.5	97.8
0°-60°	2046.2	99.8
0°-90°	2050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2050.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10044	
5°	6949	557
15°	2243	647
25°	1230	559
35°	343	242
45°	40	38
55°	3	3
65°	3	1
75°	1	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10043.6
2.5°	9069.7
5°	6949.3
7.5°	4956.1
10°	3615.1
12.5°	2773.9
15°	2243.4
17.5°	1886.8
20°	1621.9
22.5°	1396.0
25°	1229.8
27.5°	1054.6
30°	846.1
32.5°	588.1
35°	343.4
37.5°	191.9
40°	111.9
42.5°	69.5
45°	39.6
47.5°	32.0
50°	8.3
52.5°	4.2
55°	2.8
57.5°	1.4
60°	0.0
62.5°	0.7
65°	2.8
67.5°	2.1
70°	0.7
72.5°	3.5
75°	1.4
77.5°	0.0
80°	1.4
82.5°	0.7
85°	0.0
87.5°	1.4
90°	0.0

(END OF REPORT)