

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: P243928

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243928
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: LSR8B40D010 EC8B40950 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

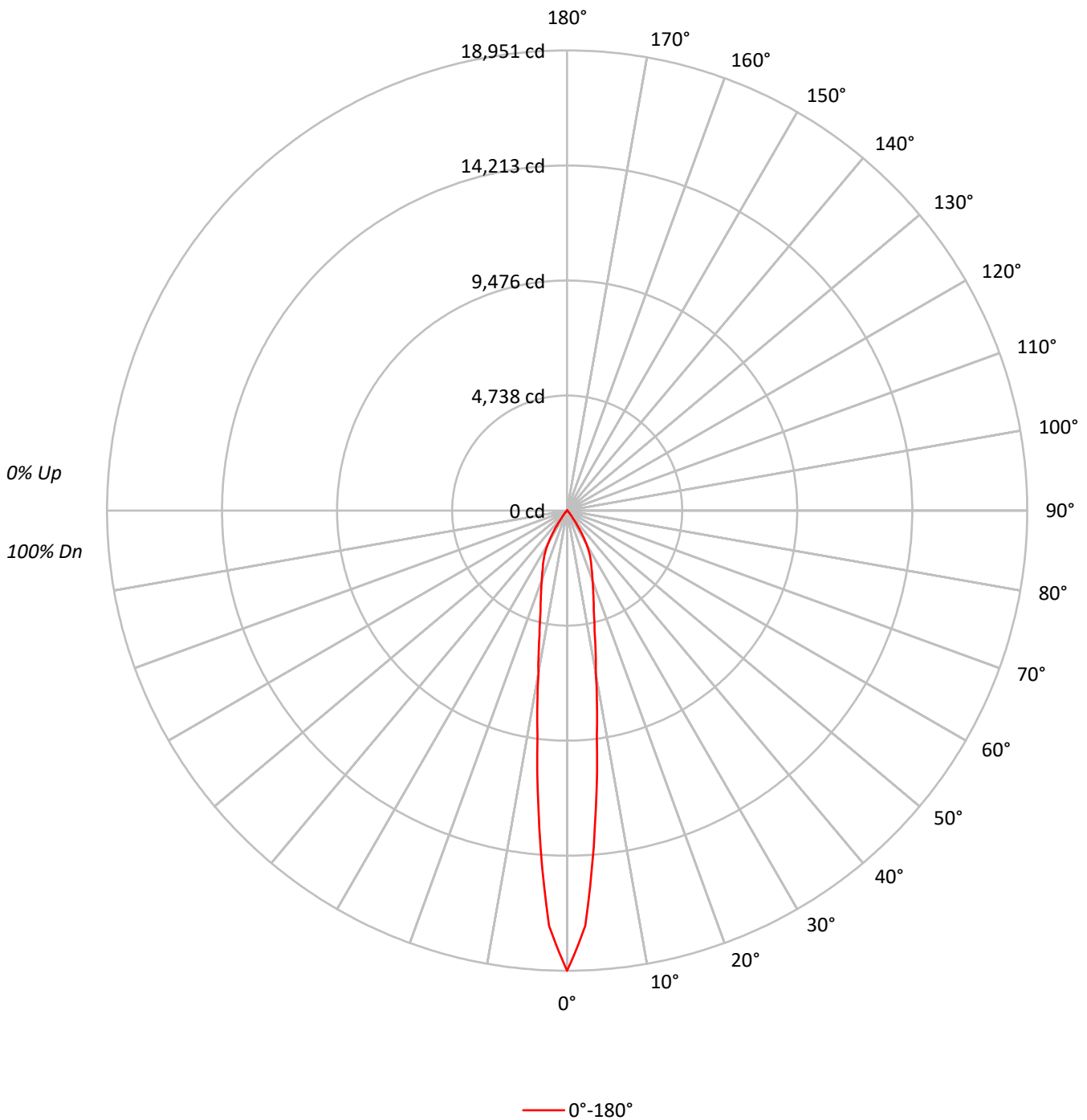
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	584367
5°	405873
10°	213579
15°	135135
20°	100425
25°	78953
30°	56843
35°	24393
40°	8502
45°	3262
50°	753
55°	280
60°	0
65°	379
70°	117
75°	310
80°	462
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.2	27.2
10°-20°	1221.4	31.6
20°-30°	1054.1	27.3
30°-40°	457.3	11.8
40°-50°	71.7	1.9
50°-60°	5.2	0.1
60°-70°	2.8	0.1
70°-80°	2.9	0.1
80°-90°	1.4	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°	3326.7	86.0
0°-40°	3784.0	97.8
0°-60°	3860.8	99.8
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18951	
5°	13112	###
15°	4233	1221
25°	2320	1054
35°	648	457
45°	75	72
55°	5	5
65°	5	3
75°	3	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18950.6
2.5°	17112.9
5°	13112.1
7.5°	9351.4
10°	6821.0
12.5°	5233.8
15°	4233.0
17.5°	3560.0
20°	3060.3
22.5°	2634.0
25°	2320.5
27.5°	1989.9
30°	1596.4
32.5°	1109.7
35°	648.0
37.5°	362.0
40°	211.2
42.5°	131.2
45°	74.8
47.5°	60.3
50°	15.7
52.5°	7.9
55°	5.2
57.5°	2.6
60°	0.0
62.5°	1.3
65°	5.2
67.5°	3.9
70°	1.3
72.5°	6.6
75°	2.6
77.5°	0.0
80°	2.6
82.5°	1.3
85°	0.0
87.5°	2.6
90°	0.0

(END OF REPORT)