

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: P243880

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243880
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 EC8B40830 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

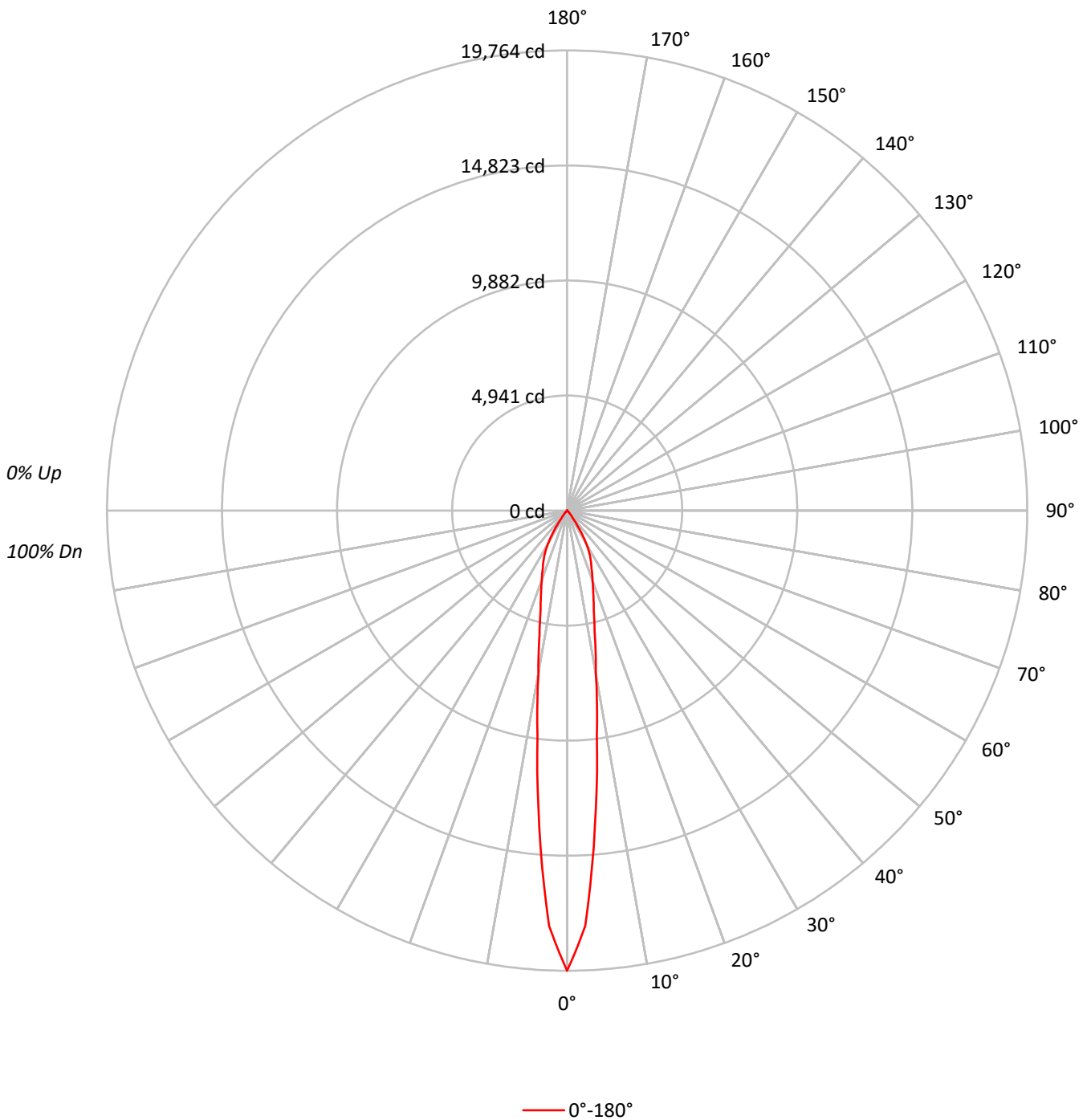
Lumens per Lamp: N/A
Luminaire Lumens: 4034.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

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°	609446
5°	423291
10°	222747
15°	140932
20°	104733
25°	82338
30°	59282
35°	25440
40°	8868
45°	3402
50°	787
55°	296
60°	0
65°	401
70°	126
75°	322
80°	479
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.3	27.2
10°-20°	1273.8	31.6
20°-30°	1099.4	27.3
30°-40°	477.0	11.8
40°-50°	74.8	1.9
50°-60°	5.4	0.1
60°-70°	2.9	0.1
70°-80°	3.0	0.1
80°-90°	1.5	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°	3469.4	86.0
0°-40°	3946.4	97.8
0°-60°	4026.5	99.8
0°-90°	4034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19764	
5°	13675	###
15°	4415	1274
25°	2420	1099
35°	676	477
45°	78	75
55°	6	5
65°	6	3
75°	3	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19763.9
2.5°	17847.3
5°	13674.8
7.5°	9752.7
10°	7113.8
12.5°	5458.4
15°	4414.6
17.5°	3712.8
20°	3191.6
22.5°	2747.0
25°	2420.0
27.5°	2075.3
30°	1664.9
32.5°	1157.4
35°	675.8
37.5°	377.6
40°	220.3
42.5°	136.8
45°	78.0
47.5°	62.9
50°	16.4
52.5°	8.2
55°	5.5
57.5°	2.7
60°	0.0
62.5°	1.4
65°	5.5
67.5°	4.1
70°	1.4
72.5°	6.8
75°	2.7
77.5°	0.0
80°	2.7
82.5°	1.4
85°	0.0
87.5°	2.7
90°	0.0

(END OF REPORT)