

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: P247014

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247014
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: LSR8B80D010 EC8B80850 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8071.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

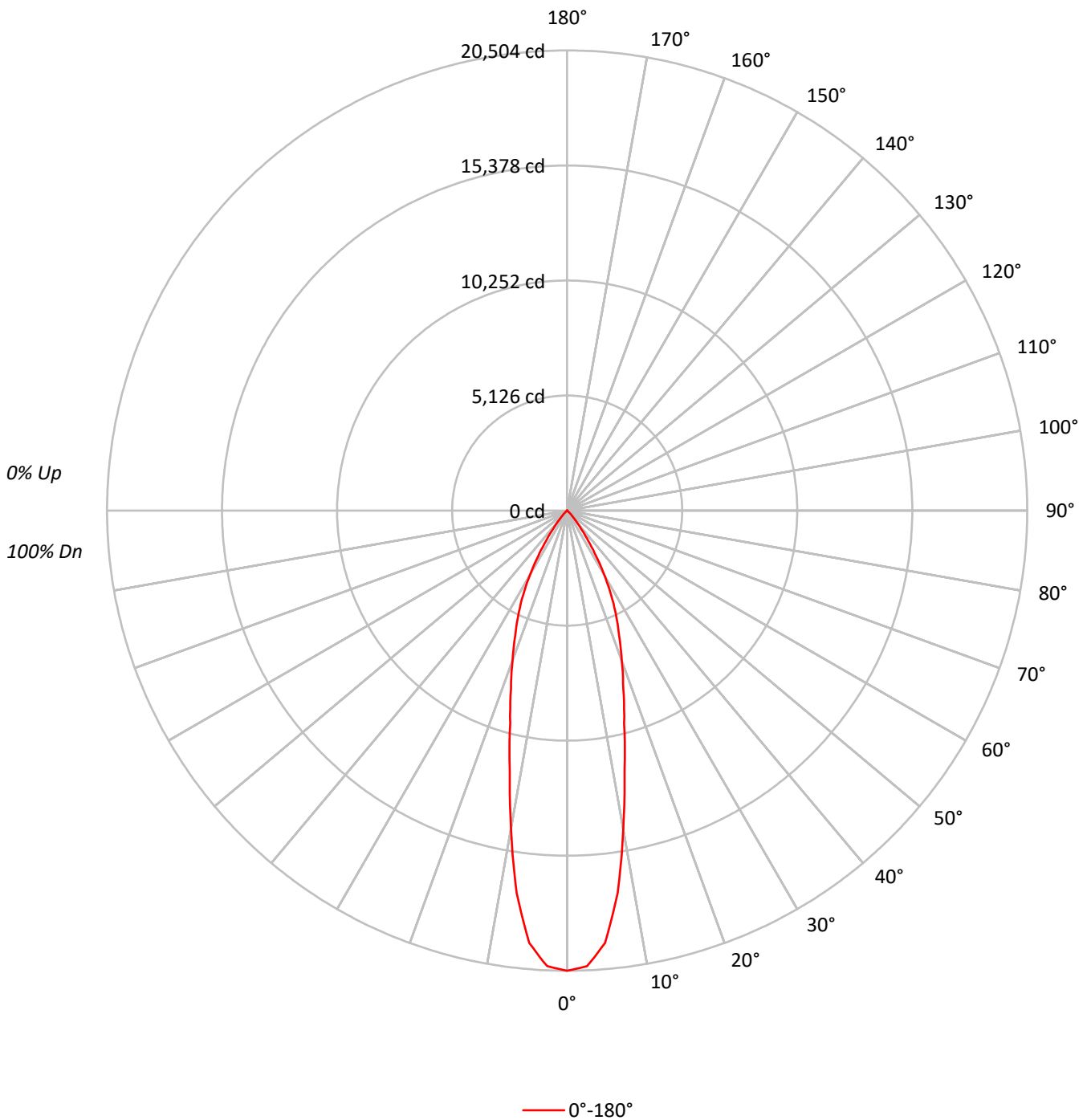
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	632252
5°	598612
10°	450827
15°	313357
20°	233593
25°	175826
30°	117570
35°	61541
40°	23770
45°	8792
50°	2236
55°	435
60°	62
65°	219
70°	270
75°	0
80°	0
85°	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1681.6	20.8
10°-20°	2780.9	34.5
20°-30°	2344.5	29.0
30°-40°	1063.8	13.2
40°-50°	185.7	2.3
50°-60°	10.1	0.1
60°-70°	1.5	0.0
70°-80°	1.7	0.0
80°-90°	1.1	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°	6807.0	84.3
0°-40°	7870.9	97.5
0°-60°	8066.7	99.9
0°-90°	8071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8071.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20504	
5°	19339	###
15°	9816	2781
25°	5168	2344
35°	1635	1064
45°	202	186
55°	8	10
65°	3	1
75°	0	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20503.5
2.5°	20322.2
5°	19338.7
7.5°	17196.5
10°	14397.9
12.5°	11811.1
15°	9815.7
17.5°	8316.7
20°	7118.4
22.5°	6064.0
25°	5167.7
27.5°	4256.1
30°	3301.9
32.5°	2403.5
35°	1634.8
37.5°	1003.8
40°	590.5
42.5°	346.4
45°	201.6
47.5°	120.5
50°	46.6
52.5°	7.1
55°	8.1
57.5°	7.1
60°	1.0
62.5°	1.0
65°	3.0
67.5°	0.0
70°	3.0
72.5°	5.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	1.0
87.5°	3.0
90°	0.0

(END OF REPORT)