

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: P247031

Luminaire Tested: **LD8B90D010 ER8B90940 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247031
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: LD8B90D010 ER8B90940 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7993.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

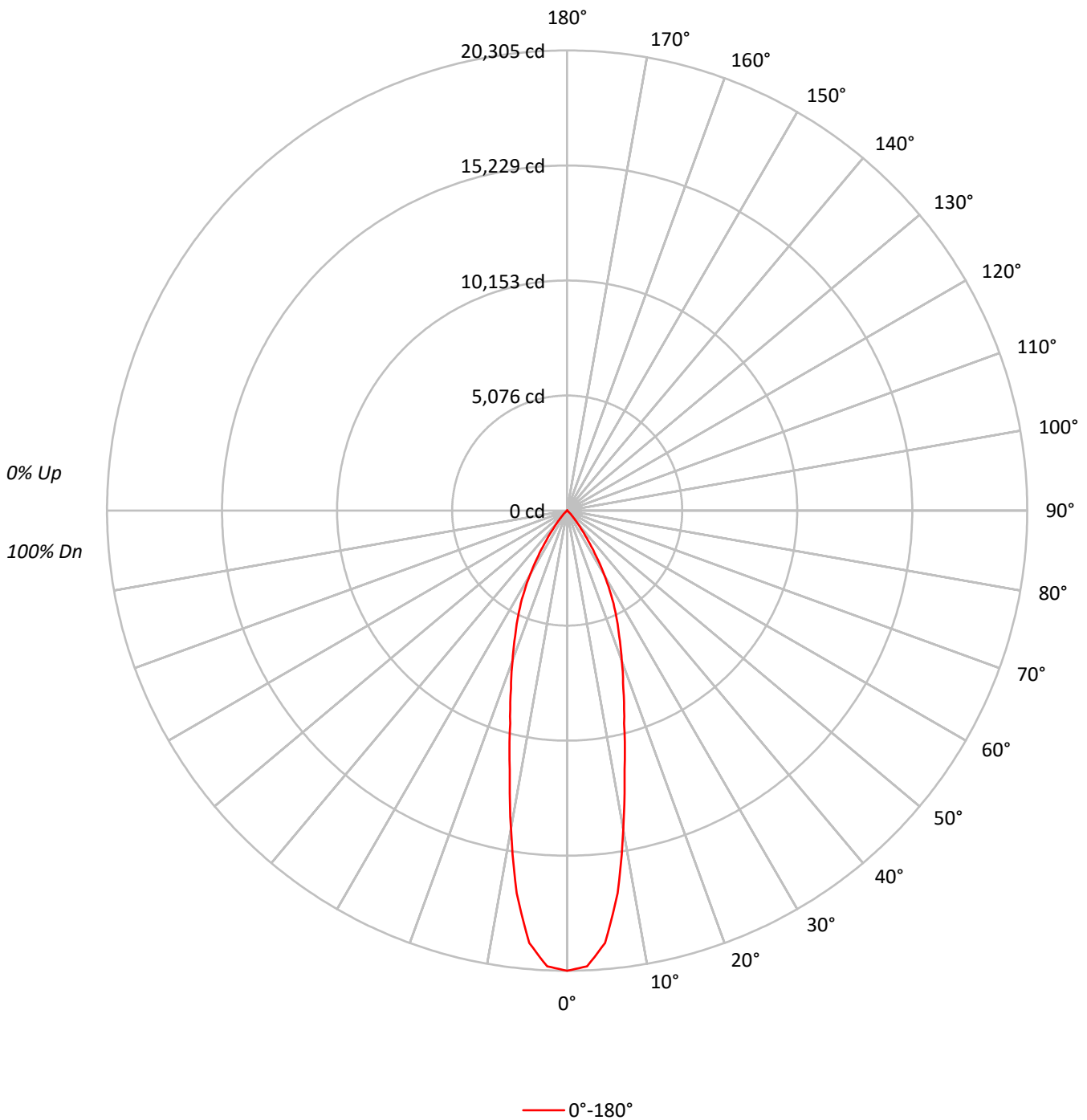
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	626141
5°	592827
10°	446472
15°	310328
20°	231335
25°	174125
30°	116434
35°	60946
40°	23541
45°	8704
50°	2212
55°	430
60°	62
65°	219
70°	270
75°	0
80°	0
85°	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1665.3	20.8
10°-20°	2754.1	34.5
20°-30°	2321.8	29.0
30°-40°	1053.6	13.2
40°-50°	183.9	2.3
50°-60°	10.0	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°	6741.2	84.3
0°-40°	7794.8	97.5
0°-60°	7988.7	99.9
0°-90°	7993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7993.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20305	
5°	19152	###
15°	9721	2754
25°	5118	2322
35°	1619	1054
45°	200	184
55°	8	10
65°	3	1
75°	0	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20305.3
2.5°	20125.8
5°	19151.8
7.5°	17030.3
10°	14258.8
12.5°	11696.9
15°	9720.8
17.5°	8236.3
20°	7049.6
22.5°	6005.4
25°	5117.7
27.5°	4214.9
30°	3270.0
32.5°	2380.3
35°	1619.0
37.5°	994.1
40°	584.8
42.5°	343.1
45°	199.6
47.5°	119.4
50°	46.1
52.5°	7.0
55°	8.0
57.5°	7.0
60°	1.0
62.5°	1.0
65°	3.0
67.5°	0.0
70°	3.0
72.5°	5.0
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)