

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: P244034

Luminaire Tested: **LD8B20D010 ER8B20840 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20840 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2435.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

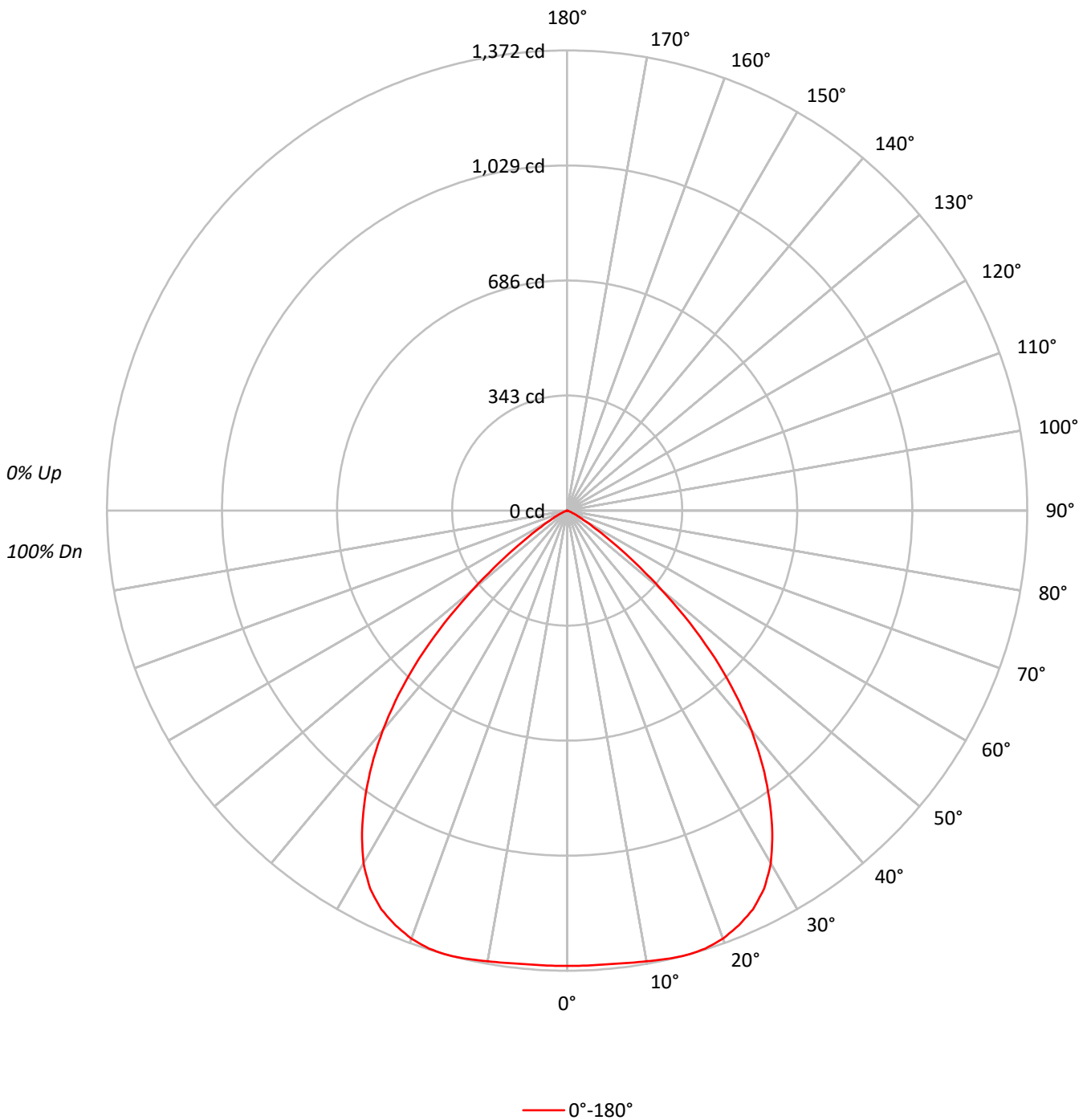
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88		91	88	86		88	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78		84	80	77		82	78	75	74
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75	71	68	66
5	86	76	69	63	84	75	68	63	73	67	63		71	66	62		69	65	61	60
6	80	70	62	57	79	69	62	57	67	61	56		66	60	56		64	59	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	71	59	52	47	69	58	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	44	39	50	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41863
5°	42045
10°	42728
15°	43809
20°	44573
25°	44626
30°	43244
35°	39594
40°	34409
45°	27230
50°	17654
55°	8822
60°	3707
65°	1627
70°	505
75°	250
80°	249
85°	248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	5.3
10°-20°	387.8	15.9
20°-30°	600.7	24.7
30°-40°	652.4	26.8
40°-50°	474.1	19.5
50°-60°	161.1	6.6
60°-70°	25.7	1.1
70°-80°	2.8	0.1
80°-90°	0.6	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°	1118.4	45.9
0°-40°	1770.8	72.7
0°-60°	2406.0	98.8
0°-90°	2435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1358	
5°	1358	130
15°	1372	388
25°	1312	601
35°	1052	652
45°	624	474
55°	164	161
65°	22	26
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1357.6
2.5°	1357.6
5°	1358.3
7.5°	1360.4
10°	1364.6
12.5°	1369.5
15°	1372.3
17.5°	1369.5
20°	1358.3
22.5°	1338.1
25°	1311.6
27.5°	1271.7
30°	1214.5
32.5°	1138.4
35°	1051.8
37.5°	957.5
40°	854.8
42.5°	743.8
45°	624.4
47.5°	495.8
50°	368.0
52.5°	252.1
55°	164.1
57.5°	99.9
60°	60.1
62.5°	37.0
65°	22.3
67.5°	12.6
70°	5.6
72.5°	3.5
75°	2.1
77.5°	1.4
80°	1.4
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)