

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: P244322

Luminaire Tested: **LD8B20D010 ER8B20840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1998.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

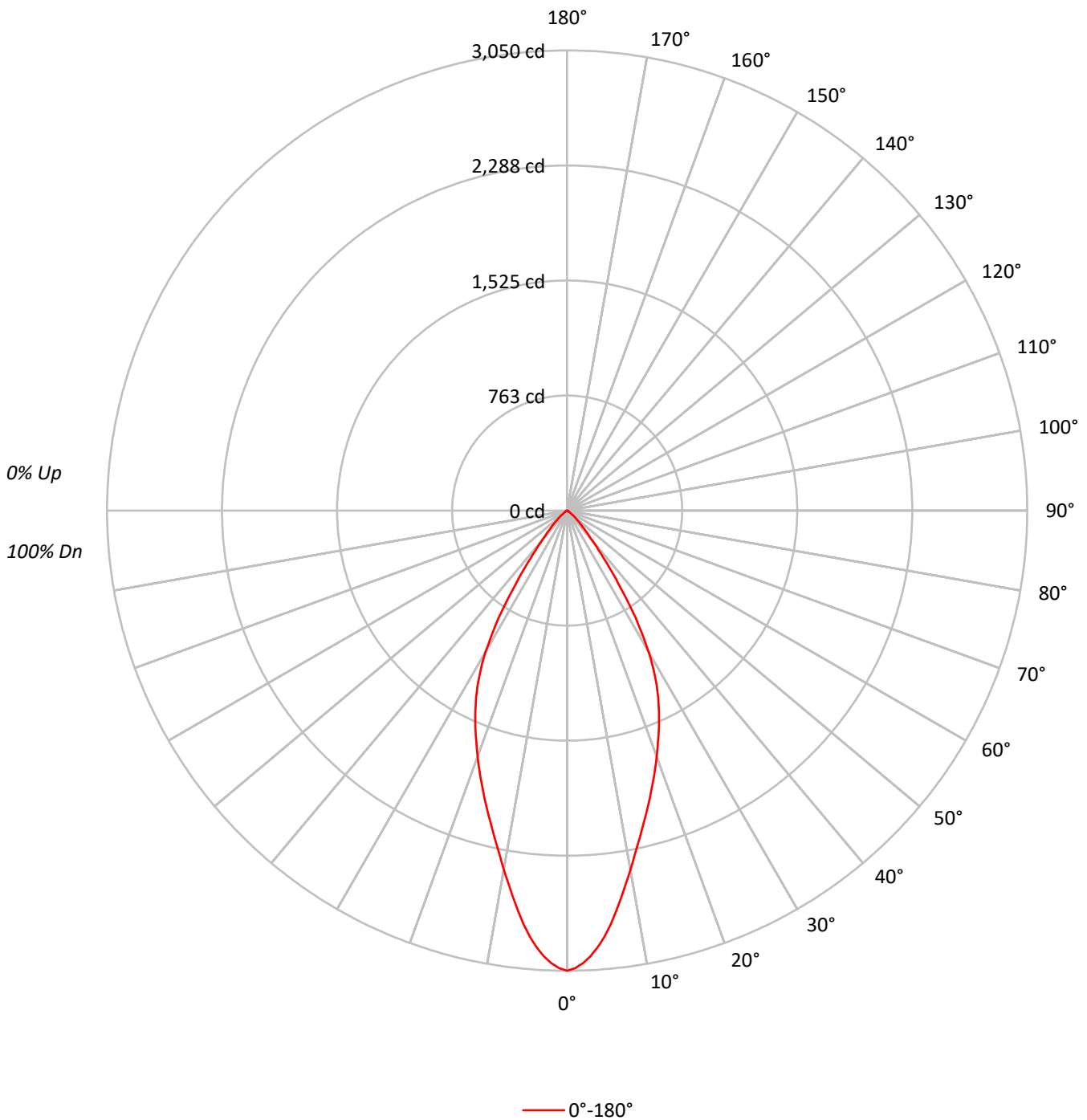
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94051
5°	87724
10°	75619
15°	65444
20°	56928
25°	48923
30°	38441
35°	22428
40°	10349
45°	5355
50°	2686
55°	1306
60°	666
65°	394
70°	180
75°	155
80°	124
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	12.8
10°-20°	573.2	28.7
20°-30°	651.7	32.6
30°-40°	382.7	19.2
40°-50°	102.7	5.1
50°-60°	24.4	1.2
60°-70°	5.6	0.3
70°-80°	1.2	0.1
80°-90°	0.1	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°	1481.3	74.1
0°-40°	1864.0	93.3
0°-60°	1991.1	99.7
0°-90°	1998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1998.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3050	
5°	2834	256
15°	2050	573
25°	1438	652
35°	596	383
45°	123	103
55°	24	24
65°	5	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3050.0
1°	3033.1
2°	3002.1
3°	2958.2
4°	2901.5
5°	2834.0
6°	2757.8
7°	2671.4
8°	2585.0
9°	2498.0
10°	2415.0
11°	2334.0
12°	2257.8
13°	2186.9
14°	2116.1
15°	2050.0
16°	1985.2
17°	1921.1
18°	1859.0
19°	1796.2
20°	1734.8
21°	1673.4
22°	1614.7
23°	1556.7
24°	1497.3
25°	1437.9
26°	1376.5
27°	1309.7
28°	1239.6
29°	1162.6
30°	1079.6
32.5°	846.8
35°	595.8
37.5°	392.7
40°	257.1
42.5°	177.5
45°	122.8
47.5°	84.3
50°	56.0
52.5°	36.4
55°	24.3
57.5°	16.2
60°	10.8
62.5°	7.4
65°	5.4



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	3.4
70°	2.0
72.5°	1.3
75°	1.3
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)