

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: P246590

Luminaire Tested: **LD8B20D010 ER8B20950 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20950 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2051.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

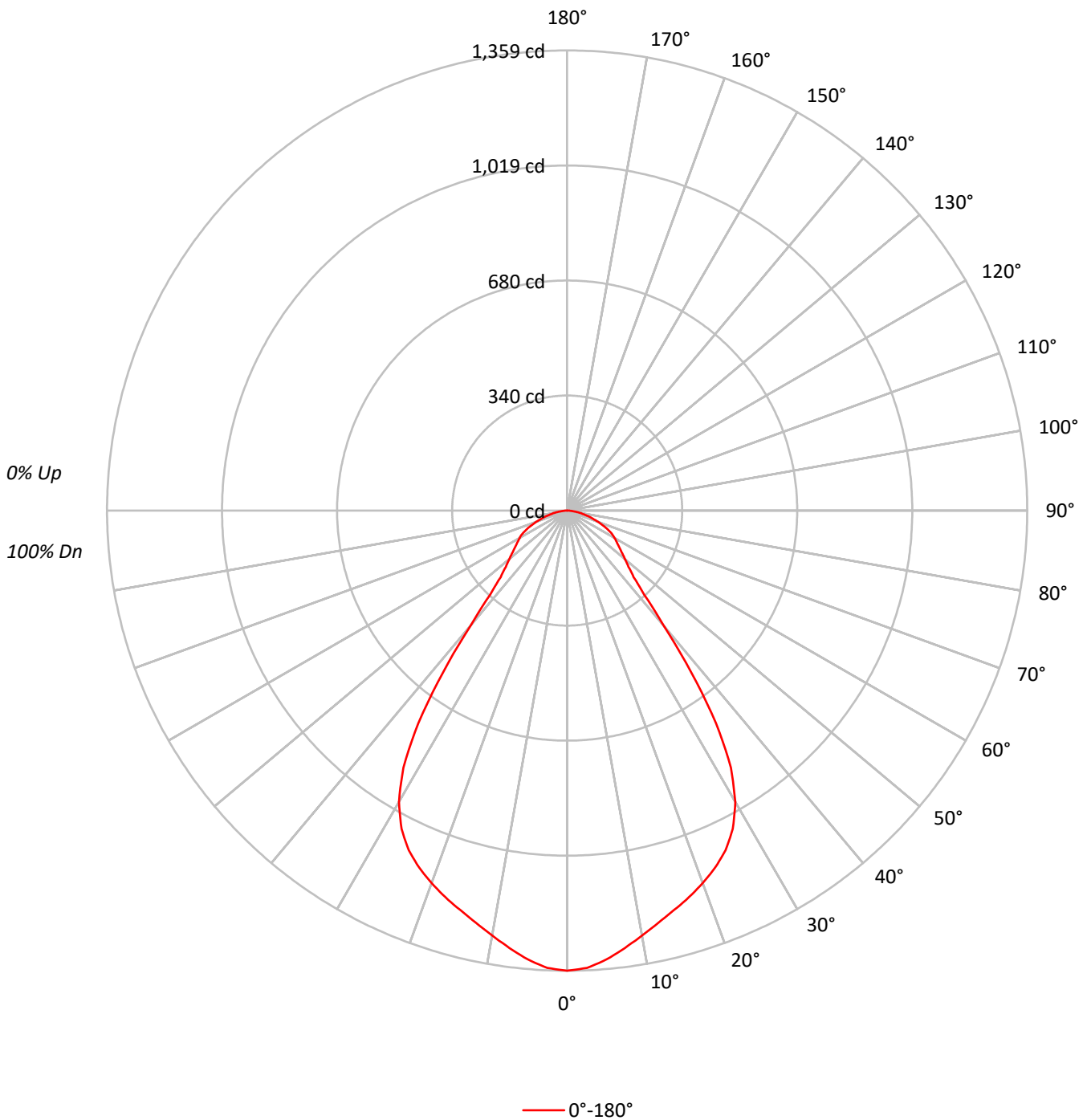
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246590

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBW0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246590

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBW0MW

**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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		86	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66		74	69	65		72	68	64	62
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		67	62	58	56
6	79	67	60	54	77	66	59	54	65	58	54		63	58	53		62	57	53	51
7	74	62	55	49	72	61	54	49	60	54	49		59	53	49		57	52	48	47
8	69	58	50	45	68	57	50	45	56	50	45		55	49	45		54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41		51	45	41		50	45	41	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	41903
5°	41200
10°	39904
15°	38979
20°	38423
25°	37671
30°	35368
35°	28873
40°	17885
45°	12115
50°	10674
55°	10070
60°	9991
65°	9682
70°	8682
75°	7518
80°	6357
85°	5059



TEST NUMBER: P246590

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBW0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	6.1
10°-20°	344.9	16.8
20°-30°	505.7	24.7
30°-40°	462.3	22.5
40°-50°	228.9	11.2
50°-60°	169.2	8.3
60°-70°	130.1	6.3
70°-80°	67.8	3.3
80°-90°	16.9	0.8
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°	975.8	47.6
0°-40°	1438.1	70.1
0°-60°	1836.2	89.5
0°-90°	2051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1359	
5°	1331	125
15°	1221	345
25°	1107	506
35°	767	462
45°	278	229
55°	187	169
65°	133	130
75°	63	68
85°	14	17
90°	0	



TEST NUMBER: P246590

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBW0MW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1358.9
2.5°	1351.8
5°	1331.0
7.5°	1303.0
10°	1274.4
12.5°	1246.4
15°	1221.0
17.5°	1197.0
20°	1170.9
22.5°	1141.7
25°	1107.2
27.5°	1059.7
30°	993.3
32.5°	900.3
35°	767.0
37.5°	601.7
40°	444.3
42.5°	336.3
45°	277.8
47.5°	245.9
50°	222.5
52.5°	203.6
55°	187.3
57.5°	173.7
60°	162.0
62.5°	149.6
65°	132.7
67.5°	114.5
70°	96.3
72.5°	79.4
75°	63.1
77.5°	48.8
80°	35.8
82.5°	24.7
85°	14.3
87.5°	5.2
90°	0.0

(END OF REPORT)