

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: P246560

Luminaire Tested: **LD8B20D010 ER8B20850 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246560  
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 ER8B20850 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2253.0 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

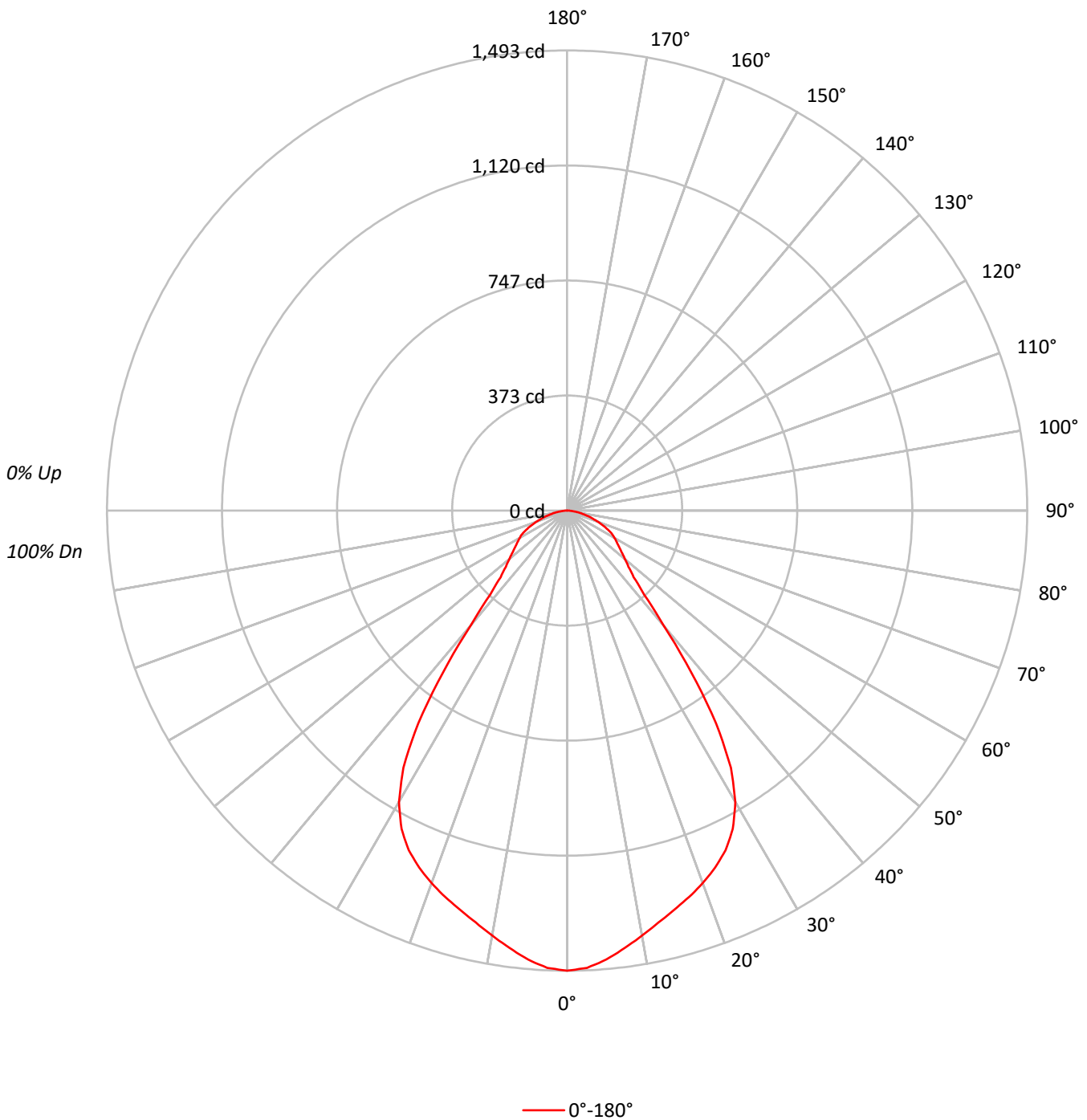
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	46032
5°	45255
10°	43834
15°	42820
20°	42210
25°	41380
30°	38854
35°	31715
40°	19648
45°	13305
50°	11725
55°	11064
60°	10972
65°	10638
70°	9539
75°	8257
80°	6979
85°	5555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	6.1
10°-20°	378.8	16.8
20°-30°	555.6	24.7
30°-40°	507.8	22.5
40°-50°	251.4	11.2
50°-60°	185.9	8.3
60°-70°	142.9	6.3
70°-80°	74.5	3.3
80°-90°	18.6	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°	1071.9	47.6
0°-40°	1579.7	70.1
0°-60°	2017.1	89.5
0°-90°	2253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1493	
5°	1462	138
15°	1341	379
25°	1216	556
35°	842	508
45°	305	251
55°	206	186
65°	146	143
75°	69	74
85°	16	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1492.8
2.5°	1484.9
5°	1462.0
7.5°	1431.3
10°	1399.9
12.5°	1369.1
15°	1341.3
17.5°	1314.8
20°	1286.3
22.5°	1254.1
25°	1216.2
27.5°	1164.1
30°	1091.2
32.5°	989.0
35°	842.5
37.5°	661.0
40°	488.1
42.5°	369.4
45°	305.1
47.5°	270.1
50°	244.4
52.5°	223.7
55°	205.8
57.5°	190.8
60°	177.9
62.5°	164.4
65°	145.8
67.5°	125.8
70°	105.8
72.5°	87.2
75°	69.3
77.5°	53.6
80°	39.3
82.5°	27.2
85°	15.7
87.5°	5.7
90°	0.0

(END OF REPORT)