

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: P250062

Luminaire Tested: **LD8B175D010 ER8B175840 8LBNOWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175840 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16399.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

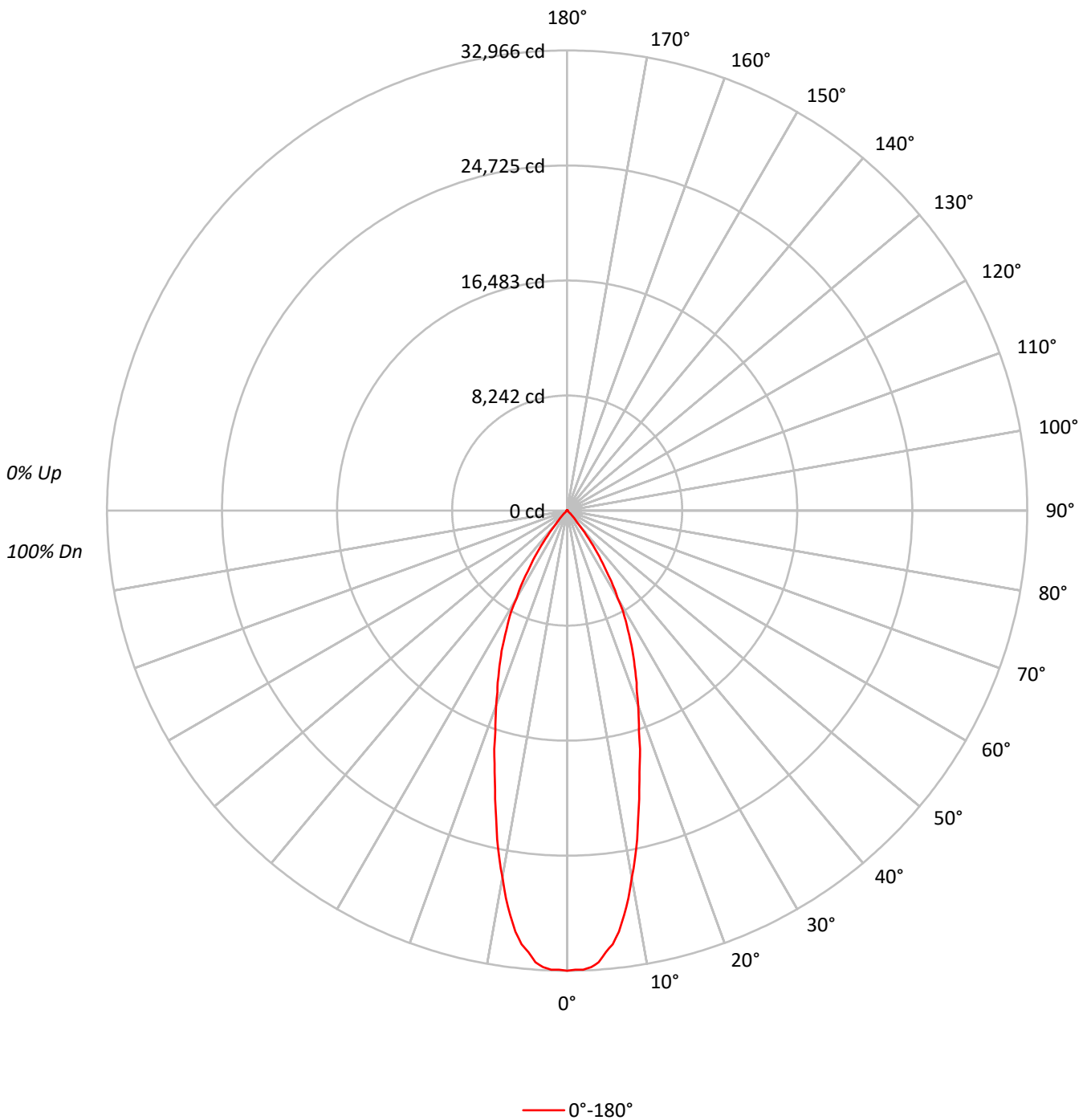
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	1016550
5°	983059
10°	836028
15°	638093
20°	487662
25°	377899
30°	257743
35°	151431
40°	46304
45°	18216
50°	273
55°	306
60°	352
65°	839
70°	1551
75°	1370
80°	1012
85°	6085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2879.1	17.6
10°-20°	5579.0	34.0
20°-30°	5022.9	30.6
30°-40°	2485.1	15.2
40°-50°	378.0	2.3
50°-60°	15.5	0.1
60°-70°	20.0	0.1
70°-80°	7.5	0.0
80°-90°	11.7	0.1
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°	13481.1	82.2
0°-40°	15966.2	97.4
0°-60°	16359.7	99.8
0°-90°	16399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	32966	
5°	31759	###
15°	19988	5579
25°	11107	5023
35°	4023	2485
45°	418	378
55°	6	16
65°	12	20
75°	12	8
85°	17	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	32966.0
1°	32897.4
2°	32914.3
3°	32748.4
4°	32445.2
5°	31758.6
6°	31232.1
7°	30396.7
8°	29275.2
9°	28107.7
10°	26699.9
11°	25441.1
12°	24090.8
13°	22597.2
14°	21309.7
15°	19987.8
16°	18860.5
17°	17864.9
18°	16640.3
19°	15741.8
20°	14860.8
21°	13945.1
22°	13275.6
23°	12497.4
24°	11782.0
25°	11106.8
26°	10311.4
27°	9596.3
28°	8955.3
29°	8251.4
30°	7238.6
31°	6666.5
32°	5945.4
33°	5155.7
34°	4554.9
35°	4022.7
37.5°	2546.3
40°	1150.3
42.5°	784.0
45°	417.7
47.5°	234.5
50°	5.7
52.5°	23.0
55°	5.7
57.5°	34.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	5.7
62.5°	28.7
65°	11.5
67.5°	28.7
70°	17.2
72.5°	5.7
75°	11.5
77.5°	0.0
80°	5.7
82.5°	23.0
85°	17.2
87.5°	0.0
90°	0.0

(END OF REPORT)