

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: P249845

Luminaire Tested: **LD8B175D010 ER8B175940 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14330.9 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

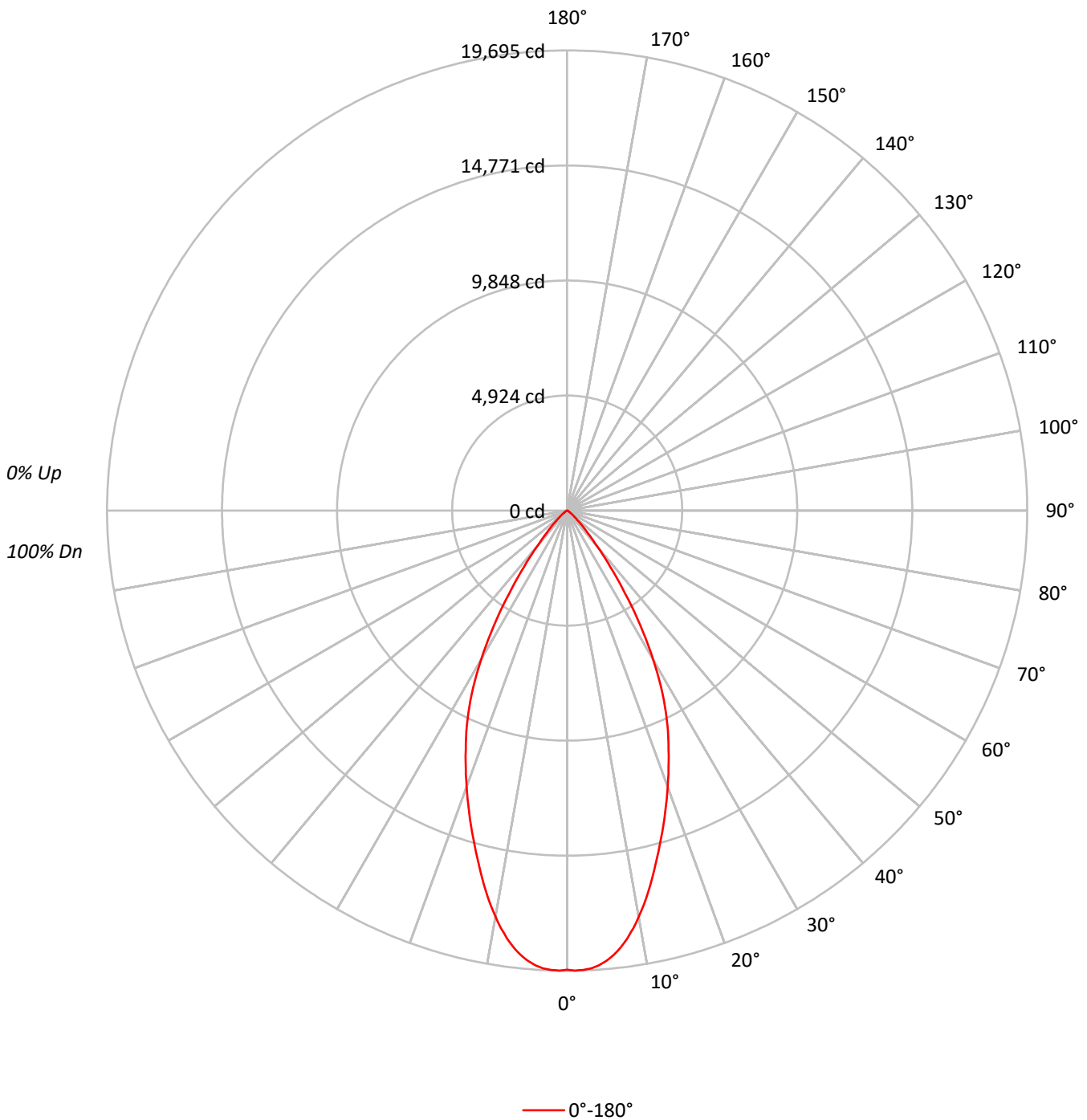
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	606116
5°	598674
10°	552901
15°	482118
20°	412981
25°	345692
30°	262995
35°	163029
40°	80431
45°	38280
50°	18613
55°	9123
60°	5680
65°	3889
70°	2182
75°	1728
80°	1723
85°	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1792.4	12.5
10°-20°	4208.0	29.4
20°-30°	4599.2	32.1
30°-40°	2736.9	19.1
40°-50°	750.7	5.2
50°-60°	170.0	1.2
60°-70°	52.5	0.4
70°-80°	15.9	0.1
80°-90°	5.2	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°	10599.6	74.0
0°-40°	13336.4	93.1
0°-60°	14257.2	99.5
0°-90°	14330.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14330.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19656	
5°	19341	###
15°	15102	4208
25°	10160	4599
35°	4331	2737
45°	878	751
55°	170	170
65°	53	52
75°	14	16
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19655.9
1°	19694.7
2°	19670.4
3°	19622.0
4°	19510.4
5°	19340.7
6°	19122.4
7°	18831.4
8°	18492.0
9°	18099.1
10°	17657.8
11°	17187.4
12°	16683.0
13°	16164.1
14°	15625.8
15°	15102.0
16°	14587.9
17°	14083.6
18°	13579.2
19°	13074.8
20°	12585.0
22.5°	11353.2
25°	10160.2
27.5°	8845.9
30°	7386.1
32.5°	5819.7
35°	4330.8
37.5°	3011.7
40°	1998.1
42.5°	1309.4
45°	877.8
47.5°	582.0
50°	388.0
52.5°	237.6
55°	169.7
57.5°	121.2
60°	92.1
62.5°	67.9
65°	53.3
67.5°	33.9
70°	24.2
72.5°	19.4
75°	14.5
77.5°	9.7
80°	9.7



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	4.8
85°	4.8
87.5°	4.8
90°	0.0

(END OF REPORT)