

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: P247920

Luminaire Tested: **LD8B175D010 ER8B175840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 18247.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

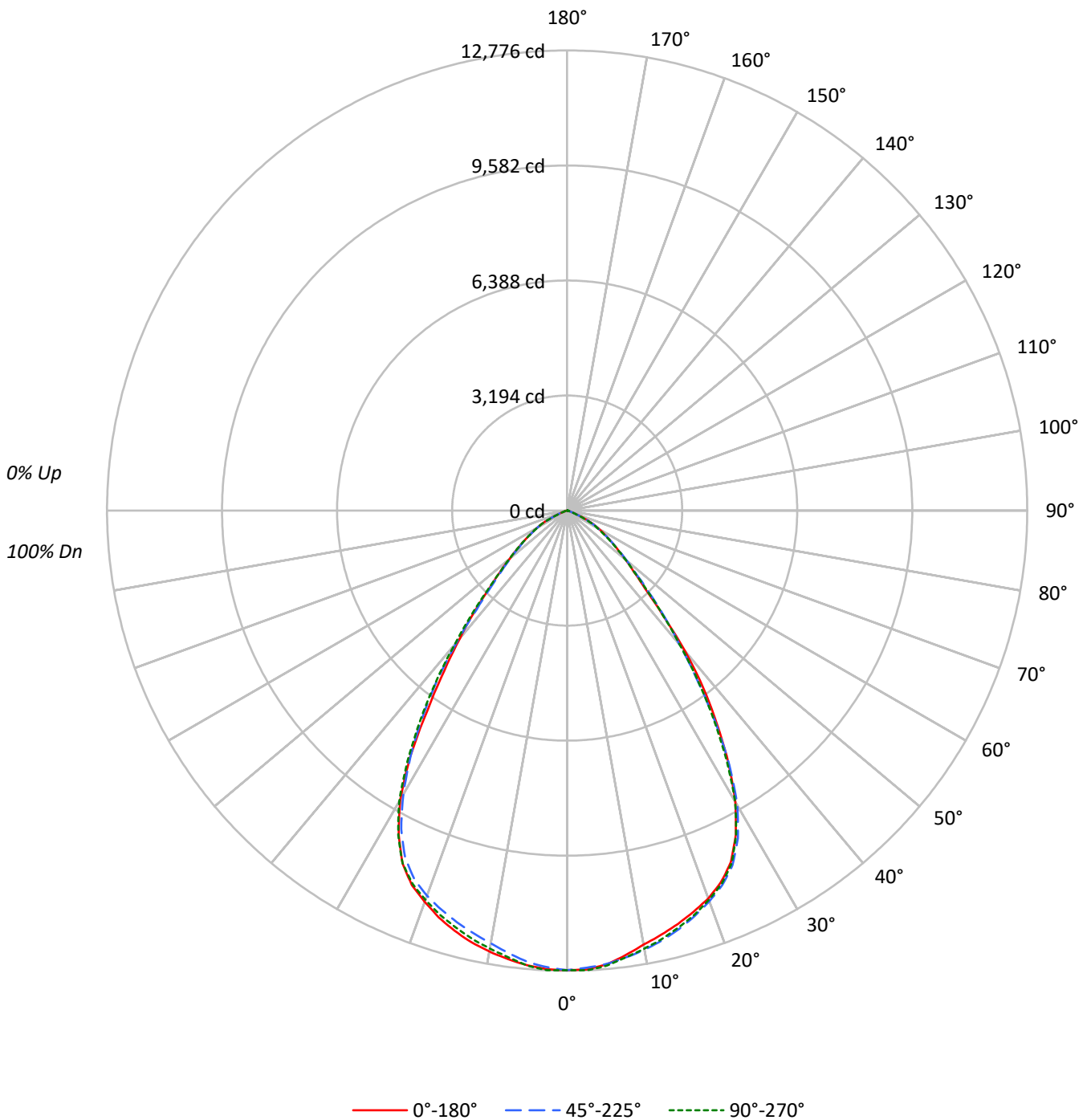
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	393465	393465	393465
5°	391427	392538	392331
10°	383065	386613	389315
15°	379309	382352	385538
20°	376057	377419	379296
25°	366174	367586	367889
30°	332364	332043	329807
35°	273651	267526	254143
40°	204623	195413	186561
45°	132506	135982	132899
50°	101429	100892	100460
55°	79476	78029	77368
60°	63227	59767	60600
65°	41495	36665	37073
70°	14867	13650	14155
75°	5349	6553	5349
80°	3392	4777	3978
85°	778	2371	1592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1195.1	6.5
10°-20°	3369.4	18.5
20°-30°	4885.0	26.8
30°-40°	4391.0	24.1
40°-50°	2474.4	13.6
50°-60°	1318.4	7.2
60°-70°	526.9	2.9
70°-80°	70.2	0.4
80°-90°	16.6	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°	9449.6	51.8
0°-40°	13840.6	75.9
0°-60°	17633.4	96.6
0°-90°	18247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12760	12760	12760	12760	12760	
5°	12645	12634	12681	12582	12675	###
15°	11882	12020	11977	11829	12077	3353
25°	10762	10863	10804	10636	10813	4885
35°	7269	7165	7107	7008	6751	4510
45°	3038	3203	3118	2971	3048	2496
55°	1478	1483	1451	1418	1439	1347
65°	569	542	502	488	508	563
75°	45	57	55	54	45	67
85°	2	14	7	19	4	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	12759.8	12759.8	12759.8	12759.8	12759.8	12759.8	12759.8	12759.8	12759.8
2.5°	12750.8	12723.9	12703.7	12741.9	12775.5	12683.5	12690.3	12730.7	12744.1
5°	12645.4	12620.7	12634.2	12665.6	12681.3	12565.8	12581.5	12649.9	12674.6
7.5°	12448.0	12467.1	12515.3	12555.7	12508.6	12372.9	12395.3	12513.1	12561.3
10°	12233.8	12278.6	12379.6	12426.7	12347.1	12173.2	12199.0	12357.1	12433.4
12.5°	12063.3	12112.6	12218.1	12254.0	12183.3	11996.0	12022.9	12186.7	12277.5
15°	11881.6	11926.4	12019.5	12048.7	11976.9	11804.2	11828.9	11985.9	12076.7
17.5°	11676.3	11715.6	11798.6	11825.5	11762.7	11579.8	11619.1	11764.9	11844.6
20°	11459.8	11487.9	11546.2	11561.9	11501.3	11363.4	11381.3	11506.9	11558.5
22.5°	11164.8	11200.7	11254.6	11271.4	11215.3	11063.9	11080.7	11204.1	11260.2
25°	10762.2	10814.9	10863.1	10884.4	10803.7	10602.9	10636.5	10742.0	10812.6
27.5°	10137.4	10180.0	10265.3	10267.5	10156.5	9947.9	9975.9	10111.6	10129.6
30°	9334.3	9373.6	9448.7	9431.9	9325.3	9077.5	9099.9	9232.2	9262.5
32.5°	8350.6	8365.2	8385.4	8379.8	8249.7	8133.0	8087.1	8102.8	8114.0
35°	7269.4	7295.2	7165.1	7094.4	7106.7	7116.8	7008.0	6846.5	6751.2
37.5°	6221.8	6098.4	5938.0	5883.0	5985.1	6018.7	5920.0	5678.9	5590.3
40°	5083.3	4973.4	4846.6	4856.7	4854.5	4878.0	4753.5	4664.9	4634.6
42.5°	3912.3	3913.4	3996.4	3939.2	3928.0	3764.2	3716.0	3765.4	3819.2
45°	3038.5	3139.5	3203.4	3186.6	3118.2	2971.2	2971.2	3057.6	3047.5
47.5°	2501.3	2537.2	2585.4	2582.0	2532.7	2425.0	2442.9	2502.4	2532.7
50°	2114.3	2130.0	2152.4	2133.4	2103.1	2035.8	2034.7	2076.2	2094.1
52.5°	1768.8	1777.8	1772.2	1762.1	1745.3	1709.4	1698.2	1732.9	1737.4
55°	1478.3	1495.2	1482.8	1454.8	1451.4	1418.9	1417.8	1445.8	1439.1
57.5°	1231.6	1214.7	1197.9	1174.4	1171.0	1160.9	1172.1	1176.6	1169.9
60°	1025.2	1026.3	993.8	971.3	969.1	954.5	970.2	982.6	982.6
62.5°	825.5	821.0	800.9	767.2	772.8	767.2	773.9	776.2	766.1
65°	568.7	569.8	541.8	501.4	502.5	498.0	487.9	503.6	508.1
67.5°	302.8	300.6	279.3	264.7	259.1	261.3	272.6	275.9	263.6
70°	164.9	159.3	163.8	148.1	151.4	145.8	151.4	160.4	157.0
72.5°	84.1	89.7	80.8	74.0	83.0	81.9	95.3	87.5	78.5
75°	44.9	48.2	57.2	52.7	55.0	52.7	53.8	50.5	44.9
77.5°	32.5	35.9	41.5	40.4	39.3	37.0	41.5	46.0	37.0
80°	19.1	23.6	25.8	30.3	26.9	30.3	34.8	28.0	22.4
82.5°	12.3	19.1	19.1	20.2	29.2	19.1	31.4	28.0	22.4
85°	2.2	3.4	13.5	7.9	6.7	20.2	19.1	14.6	4.5
87.5°	0.0	7.9	17.9	9.0	14.6	13.5	19.1	20.2	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)