

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: P247767

Luminaire Tested: **LD8B175D010 ER8B175827 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175827 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18143.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

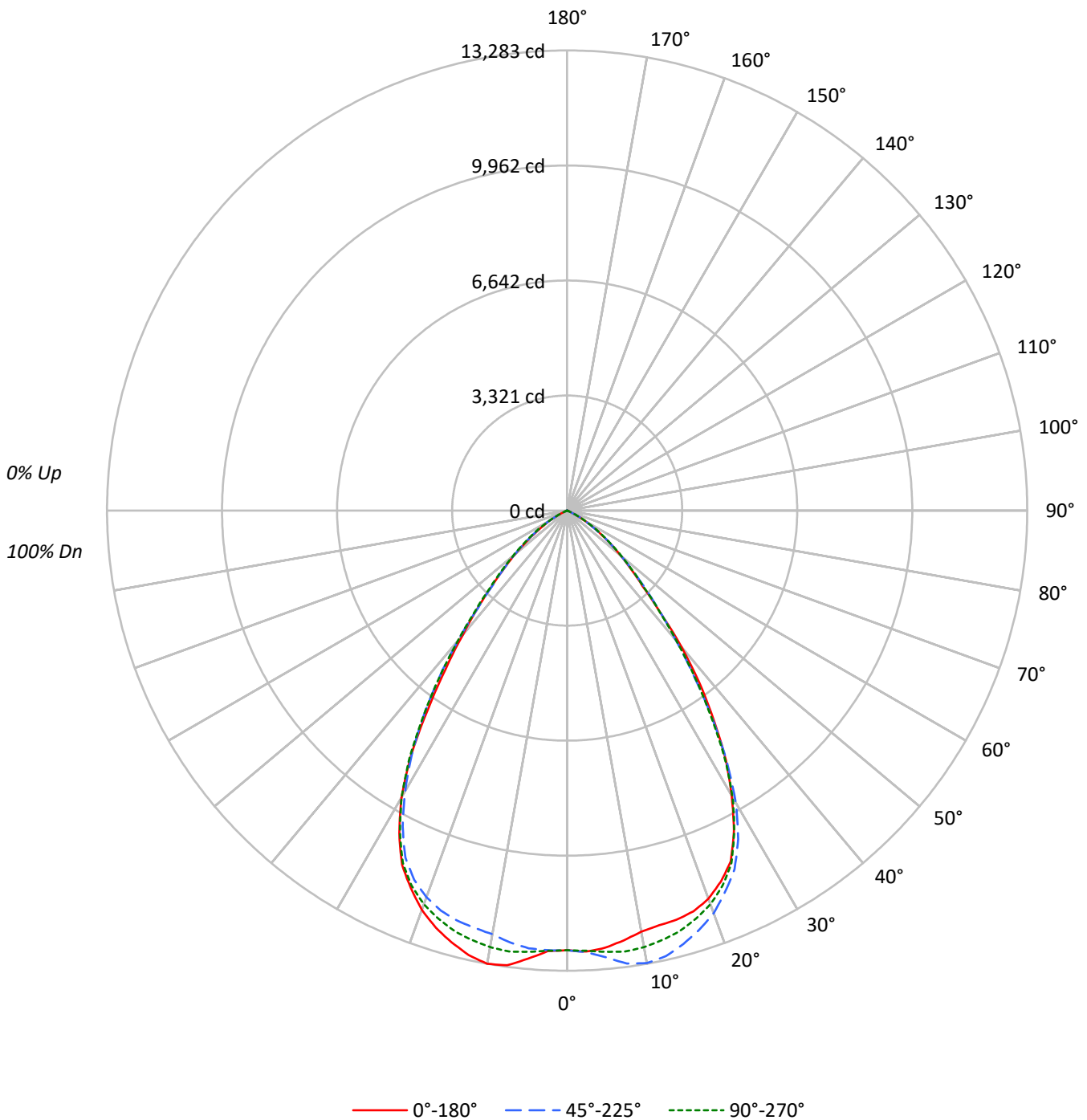
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	391285	391285	391285
5°	392093	395795	401896
10°	386443	400672	415927
15°	390346	401098	411818
20°	391336	396793	402388
25°	380236	381859	383877
30°	338185	340144	340446
35°	277750	271768	263554
40°	205891	197707	188924
45°	133858	137138	132707
50°	96646	98320	94103
55°	64401	66283	60191
60°	36122	38996	34167
65°	11361	14141	11901
70°	2957	3435	2768
75°	1894	1394	2276
80°	373	1137	0
85°	4140	1132	1486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1222.8	6.7
10°-20°	3541.5	19.5
20°-30°	5079.8	28.0
30°-40°	4482.6	24.7
40°-50°	2482.0	13.7
50°-60°	1093.7	6.0
60°-70°	221.0	1.2
70°-80°	16.6	0.1
80°-90°	3.0	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°	9844.1	54.3
0°-40°	14326.7	79.0
0°-60°	17902.4	98.7
0°-90°	18143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18143.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12689	12689	12689	12689	12689	
5°	12667	12945	12786	12683	12984	###
15°	12227	12955	12564	12257	12900	3450
25°	11176	11426	11223	11055	11282	5048
35°	7378	7272	7219	7225	7001	4577
45°	3070	3200	3145	3027	3043	2500
55°	1198	1193	1233	1169	1120	1098
65°	156	167	194	176	163	215
75°	16	16	12	13	19	15
85°	12	6	3	10	4	5
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°	12689.1	12689.1	12689.1	12689.1	12689.1	12689.1	12689.1	12689.1	12689.1
2.5°	12742.1	12689.1	12759.0	12715.6	12718.8	12653.1	12705.0	12754.8	12727.2
5°	12666.9	12715.6	12945.4	12939.1	12786.5	12588.5	12682.7	12909.4	12983.6
7.5°	12511.2	12687.0	13185.9	13231.4	12839.5	12422.2	12575.8	13048.2	13236.7
10°	12341.7	12594.8	13265.3	13354.3	12796.1	12246.4	12420.1	13015.3	13283.3
12.5°	12260.1	12504.8	13173.2	13258.9	12696.5	12161.6	12337.5	12890.3	13139.3
15°	12227.3	12411.6	12955.0	13033.3	12564.1	12114.0	12257.0	12709.2	12899.9
17.5°	12127.7	12254.8	12684.9	12734.6	12354.4	11997.5	12109.7	12456.1	12622.4
20°	11925.4	12010.2	12371.3	12397.8	12091.7	11788.8	11875.6	12148.9	12262.2
22.5°	11591.8	11647.9	11914.8	11924.4	11724.2	11461.5	11533.5	11747.5	11789.8
25°	11175.5	11180.8	11426.5	11381.0	11223.2	10979.6	11054.8	11238.0	11282.5
27.5°	10426.7	10444.7	10693.6	10633.2	10446.8	10235.0	10281.6	10448.9	10493.4
30°	9497.8	9598.4	9742.4	9712.8	9552.8	9339.9	9349.5	9513.6	9561.3
32.5°	8521.2	8491.5	8565.7	8543.4	8460.8	8292.4	8348.5	8390.9	8402.6
35°	7378.3	7354.0	7272.4	7169.7	7219.4	7285.1	7224.7	7131.5	7001.2
37.5°	6279.9	6143.3	5984.4	5877.4	6054.3	6123.2	6063.9	5861.6	5756.7
40°	5114.8	4970.8	4885.0	4858.5	4911.5	4962.3	4895.6	4797.1	4693.3
42.5°	3944.4	3943.4	3964.6	3959.3	3923.2	3850.2	3797.2	3839.6	3822.6
45°	3069.5	3117.2	3199.8	3213.6	3144.7	3037.8	3027.2	3067.4	3043.1
47.5°	2498.6	2515.6	2545.2	2587.6	2548.4	2494.4	2466.9	2479.6	2457.3
50°	2014.6	2018.8	2032.6	2064.4	2049.5	2012.5	1986.0	1970.1	1961.6
52.5°	1582.4	1572.9	1583.5	1594.1	1614.2	1589.8	1567.6	1533.7	1507.2
55°	1197.9	1190.5	1192.6	1201.1	1232.9	1205.4	1169.3	1147.1	1119.6
57.5°	869.6	845.2	850.5	879.1	908.8	897.1	865.4	829.3	795.5
60°	585.7	580.4	579.4	610.1	632.3	628.1	592.1	565.6	554.0
62.5°	346.4	343.2	351.7	365.4	391.9	372.8	348.5	334.7	330.5
65°	155.7	163.1	167.4	177.9	193.8	189.6	175.8	161.0	163.1
67.5°	67.8	51.9	58.3	65.7	61.4	64.6	57.2	60.4	58.3
70°	32.8	35.0	32.8	41.3	38.1	40.2	32.8	39.2	30.7
72.5°	23.3	20.1	25.4	29.7	25.4	29.7	26.5	20.1	15.9
75°	15.9	9.5	15.9	9.5	11.7	16.9	12.7	16.9	19.1
77.5°	2.1	7.4	3.2	4.2	2.1	5.3	5.3	3.2	9.5
80°	2.1	3.2	2.1	4.2	6.4	1.1	4.2	9.5	0.0
82.5°	7.4	0.0	1.1	0.0	1.1	2.1	0.0	2.1	0.0
85°	11.7	3.2	6.4	14.8	3.2	6.4	9.5	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.2	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)