

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: P247914

Luminaire Tested: **LD8B175D010 ER8B175830 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247914
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 ER8B175830 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17662.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

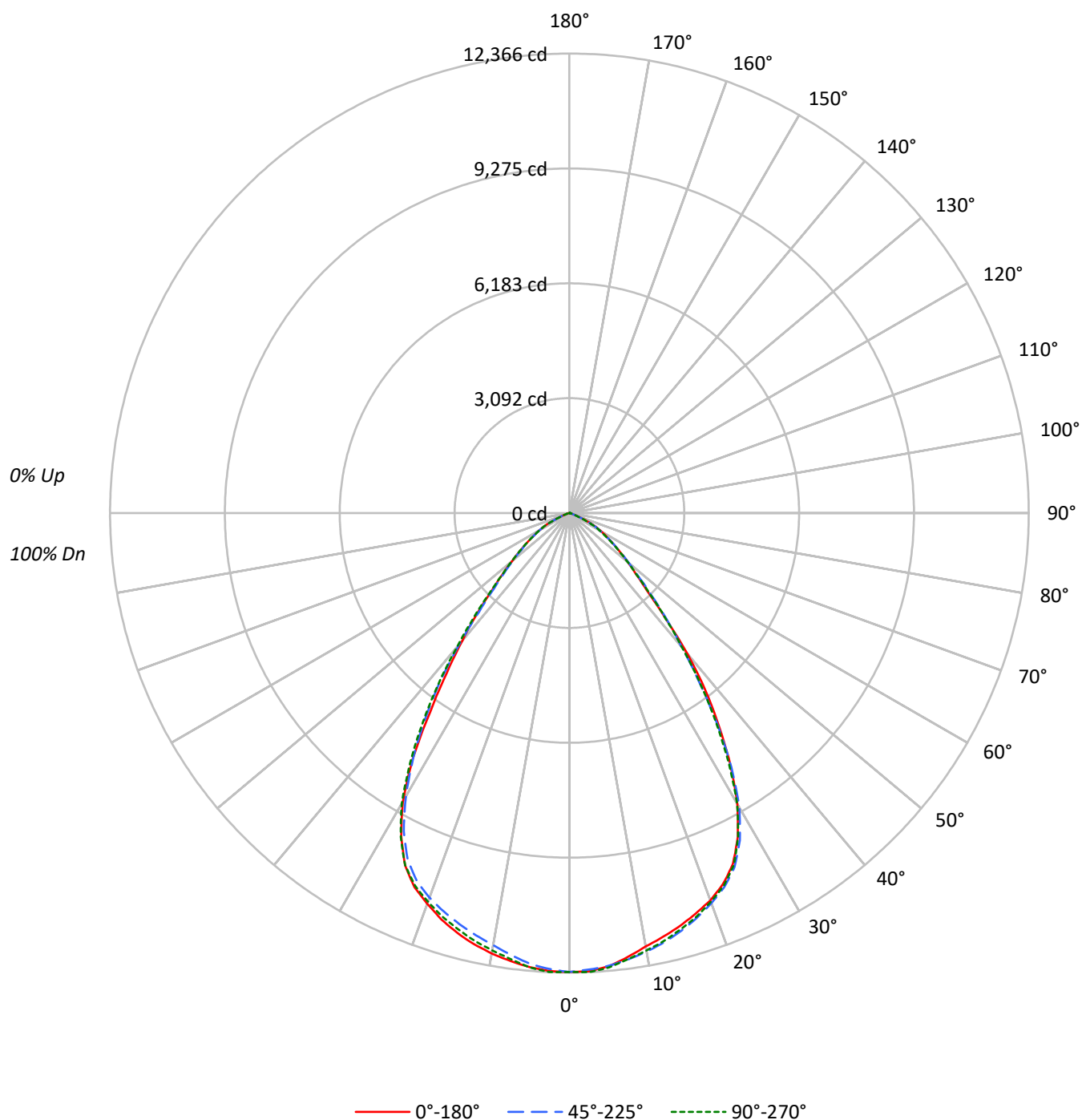
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104	110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91	103	98	93	90		94	91	88		91	88	86		89	86	84
3	99	91	85	80	97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72	90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65	85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	59	80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53	75	65	58	53		63	57	53		62	57	53		61	56	52
8	72	61	54	49	71	60	54	49		59	53	49		58	52	48		57	52	48
9	68	57	50	45	67	56	50	45		55	49	45		54	49	45		53	48	45
10	64	53	46	42	63	52	46	42		52	46	42		51	45	41		50	45	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	380850	380850	380850
5°	378878	379952	379751
10°	370784	374216	376834
15°	367146	370093	373180
20°	364001	365320	367138
25°	354433	355800	356096
30°	321710	321400	319236
35°	264876	258951	245993
40°	198062	189145	180579
45°	128259	131621	128638
50°	98176	97658	97241
55°	76927	75529	74884
60°	61198	57849	58657
65°	40160	35490	35884
70°	14389	13217	13704
75°	5171	6338	5171
80°	3285	4635	3853
85°	778	2300	1521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1156.8	6.5
10°-20°	3261.4	18.5
20°-30°	4728.4	26.8
30°-40°	4250.2	24.1
40°-50°	2395.1	13.6
50°-60°	1276.1	7.2
60°-70°	510.0	2.9
70°-80°	67.9	0.4
80°-90°	16.0	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°	9146.6	51.8
0°-40°	13396.9	75.9
0°-60°	17068.0	96.6
0°-90°	17662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17662.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12351	12351	12351	12351	12351	
5°	12240	12229	12275	12178	12268	###
15°	11501	11634	11593	11450	11690	3245
25°	10417	10515	10457	10296	10466	4729
35°	7036	6935	6879	6783	6535	4366
45°	2941	3101	3018	2876	2950	2416
55°	1431	1435	1405	1372	1393	1304
65°	550	524	486	472	492	545
75°	43	55	53	52	43	64
85°	2	13	6	18	4	6
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°	12350.7	12350.7	12350.7	12350.7	12350.7	12350.7	12350.7	12350.7	12350.7
2.5°	12342.1	12316.0	12296.5	12333.4	12365.9	12276.9	12283.4	12322.5	12335.5
5°	12240.0	12216.1	12229.1	12259.5	12274.7	12162.9	12178.1	12244.3	12268.2
7.5°	12048.9	12067.4	12114.1	12153.1	12107.5	11976.2	11997.9	12111.9	12158.6
10°	11841.6	11885.0	11982.7	12028.3	11951.2	11782.9	11807.9	11961.0	12034.8
12.5°	11676.5	11724.3	11826.4	11861.1	11792.7	11611.4	11637.4	11796.0	11883.9
15°	11500.6	11544.1	11634.2	11662.4	11592.9	11425.7	11449.6	11601.6	11689.6
17.5°	11302.0	11340.0	11420.3	11446.4	11385.6	11208.6	11246.6	11387.7	11464.8
20°	11092.4	11119.6	11176.0	11191.2	11132.6	10999.1	11016.4	11138.0	11188.0
22.5°	10806.9	10841.6	10893.8	10910.0	10855.8	10709.2	10725.5	10844.9	10899.2
25°	10417.1	10468.2	10514.8	10535.5	10457.3	10263.0	10295.5	10397.6	10466.0
27.5°	9812.4	9853.7	9936.2	9938.3	9830.9	9628.9	9656.1	9787.4	9804.8
30°	9035.1	9073.1	9145.8	9129.5	9026.4	8786.4	8808.2	8936.3	8965.6
32.5°	8082.9	8097.0	8116.6	8111.1	7985.2	7872.3	7827.8	7843.0	7853.8
35°	7036.3	7061.3	6935.3	6866.9	6878.9	6888.7	6783.4	6627.0	6534.7
37.5°	6022.3	5902.9	5747.6	5694.4	5793.2	5825.8	5730.2	5496.8	5411.0
40°	4920.3	4813.9	4691.2	4701.0	4698.8	4721.6	4601.1	4515.4	4486.0
42.5°	3786.9	3788.0	3868.3	3812.9	3802.1	3643.6	3596.9	3644.6	3696.8
45°	2941.1	3038.8	3100.7	3084.4	3018.2	2876.0	2876.0	2959.6	2949.8
47.5°	2421.1	2455.8	2502.5	2499.2	2451.5	2347.2	2364.6	2422.2	2451.5
50°	2046.5	2061.7	2083.4	2065.0	2035.7	1970.5	1969.4	2009.6	2027.0
52.5°	1712.1	1720.8	1715.4	1705.6	1689.3	1654.6	1643.7	1677.4	1681.7
55°	1430.9	1447.2	1435.3	1408.1	1404.9	1373.4	1372.3	1399.4	1392.9
57.5°	1192.1	1175.8	1159.5	1136.7	1133.5	1123.7	1134.5	1138.9	1132.4
60°	992.3	993.4	961.9	940.2	938.0	923.9	939.1	951.1	951.1
62.5°	799.1	794.7	775.2	742.6	748.0	742.6	749.1	751.3	741.5
65°	550.4	551.5	524.4	485.3	486.4	482.0	472.3	487.5	491.8
67.5°	293.1	291.0	270.3	256.2	250.8	253.0	263.8	267.1	255.1
70°	159.6	154.2	158.5	143.3	146.6	141.1	146.6	155.3	152.0
72.5°	81.4	86.9	78.2	71.7	80.3	79.3	92.3	84.7	76.0
75°	43.4	46.7	55.4	51.0	53.2	51.0	52.1	48.9	43.4
77.5°	31.5	34.7	40.2	39.1	38.0	35.8	40.2	44.5	35.8
80°	18.5	22.8	25.0	29.3	26.1	29.3	33.7	27.1	21.7
82.5°	11.9	18.5	18.5	19.5	28.2	18.5	30.4	27.1	21.7
85°	2.2	3.3	13.0	7.6	6.5	19.5	18.5	14.1	4.3
87.5°	0.0	7.6	17.4	8.7	14.1	13.0	18.5	19.5	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)