

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: P247980

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759730 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14661.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

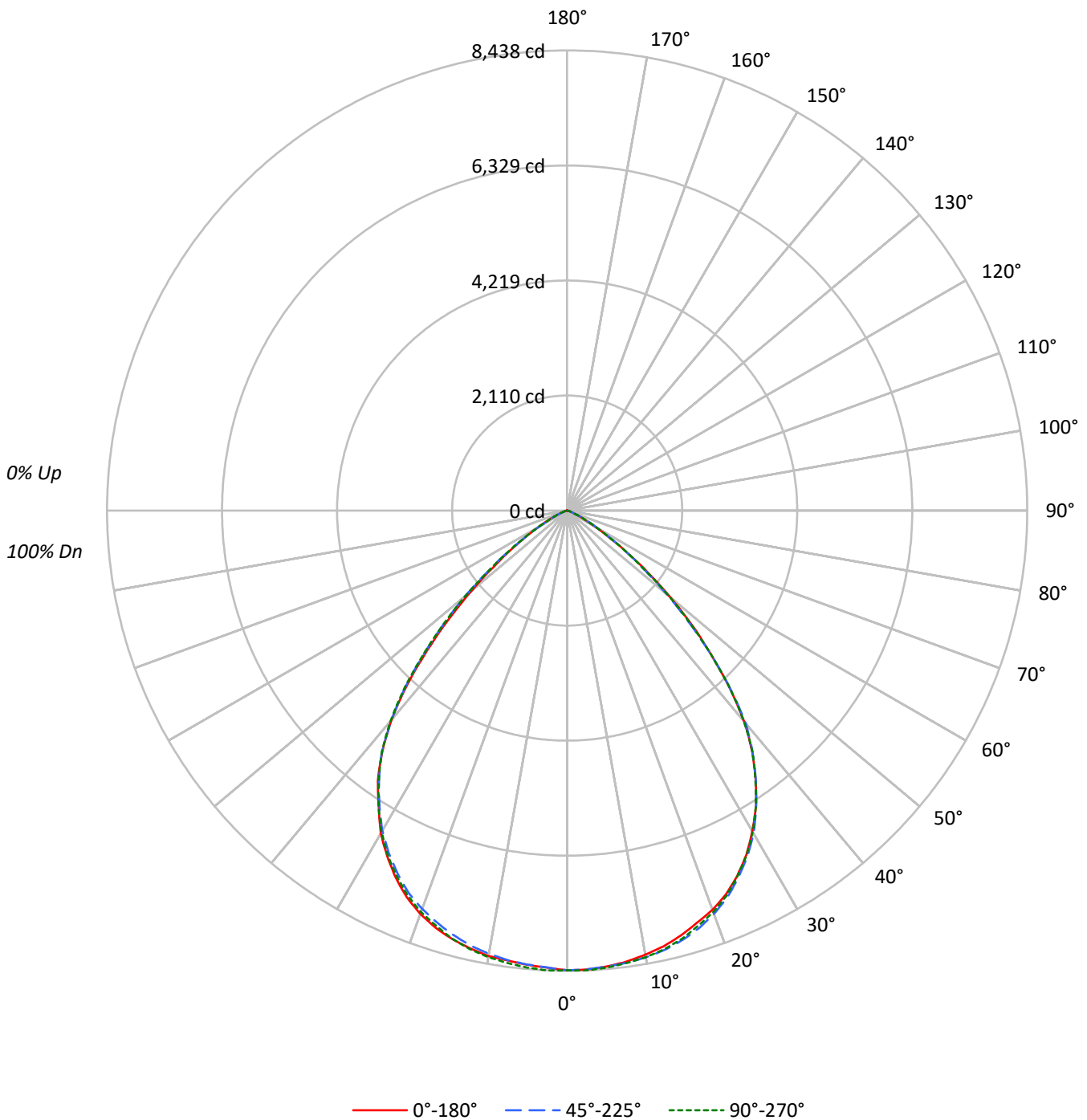
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	5.4
10°-20°	2289.4	15.6
20°-30°	3401.2	23.2
30°-40°	3748.2	25.6
40°-50°	2854.9	19.5
50°-60°	1230.7	8.4
60°-70°	282.7	1.9
70°-80°	47.0	0.3
80°-90°	8.8	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°	6488.7	44.3
0°-40°	10236.9	69.8
0°-60°	14322.5	97.7
0°-90°	14661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14661.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8430	8430	8430	8430	8430	
5°	8392	8391	8412	8355	8361	797
15°	8065	8155	8130	8058	8136	2275
25°	7385	7426	7393	7350	7435	3389
35°	6029	6032	6018	6013	6053	3743
45°	3727	3719	3726	3706	3632	2875
55°	1339	1338	1329	1337	1268	1248
65°	247	271	257	255	261	276
75°	51	51	51	52	44	47
85°	8	5	5	15	11	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°	8430.1	8430.1	8430.1	8430.1	8430.1	8430.1	8430.1	8430.1	8430.1
2.5°	8421.0	8421.8	8416.0	8428.5	8438.4	8406.0	8386.9	8430.1	8388.5
5°	8391.9	8397.7	8391.0	8406.8	8411.8	8385.2	8355.3	8401.8	8361.1
7.5°	8342.0	8353.6	8363.6	8381.9	8368.6	8335.3	8315.3	8370.2	8320.3
10°	8267.1	8296.2	8317.8	8345.3	8312.9	8277.1	8253.0	8327.8	8294.6
12.5°	8183.1	8216.4	8253.0	8286.2	8237.2	8184.8	8172.3	8252.1	8222.2
15°	8065.0	8095.8	8154.8	8186.4	8129.9	8070.0	8057.5	8159.0	8135.7
17.5°	7926.1	7980.2	8030.1	8055.0	7983.5	7931.9	7925.3	8030.1	8020.9
20°	7788.9	7818.0	7869.6	7902.8	7834.6	7773.1	7770.6	7878.7	7869.6
22.5°	7615.1	7640.8	7674.9	7705.7	7641.7	7590.1	7593.4	7682.4	7680.8
25°	7384.7	7402.1	7426.3	7460.4	7393.0	7356.4	7349.7	7444.6	7434.6
27.5°	7116.0	7127.7	7155.1	7184.2	7126.0	7093.6	7081.9	7176.7	7143.5
30°	6789.2	6815.8	6834.9	6847.4	6804.1	6784.2	6775.9	6850.7	6834.9
32.5°	6442.4	6451.5	6452.3	6483.1	6437.4	6409.1	6409.1	6469.0	6433.2
35°	6029.0	6027.3	6032.3	6065.6	6018.2	6028.2	6013.2	6060.6	6053.1
37.5°	5575.7	5583.2	5584.9	5611.5	5584.9	5591.5	5585.7	5593.2	5569.1
40°	5055.1	5087.5	5098.3	5093.3	5041.8	5024.3	5009.3	5036.8	5006.0
42.5°	4408.8	4423.8	4425.5	4428.8	4414.7	4412.2	4393.9	4405.5	4357.3
45°	3726.9	3733.5	3719.4	3716.9	3726.0	3740.2	3706.1	3679.4	3632.0
47.5°	3103.9	3080.6	3016.6	3039.9	3049.8	3085.6	3049.0	2977.5	2938.4
50°	2448.5	2424.4	2375.3	2386.2	2425.2	2479.3	2436.9	2337.9	2285.5
52.5°	1870.5	1843.0	1788.2	1798.1	1809.8	1850.5	1828.1	1760.7	1710.0
55°	1339.0	1319.9	1338.2	1323.2	1329.1	1368.1	1337.4	1281.7	1268.3
57.5°	904.9	915.7	930.7	933.2	921.5	909.9	905.7	884.1	895.7
60°	599.7	608.0	632.9	640.4	622.9	598.0	603.0	603.0	613.8
62.5°	387.6	395.1	424.2	429.2	404.2	397.6	397.6	395.1	415.0
65°	247.0	262.0	271.1	257.8	257.0	247.8	255.3	255.3	261.2
67.5°	148.0	134.7	143.9	149.7	143.9	136.4	134.7	135.6	143.9
70°	85.7	82.3	88.2	84.8	88.2	76.5	85.7	81.5	84.0
72.5°	54.9	54.1	54.1	57.4	54.1	52.4	55.7	48.2	53.2
75°	50.7	50.7	50.7	44.1	50.7	49.1	51.6	39.1	44.1
77.5°	20.0	23.3	28.3	27.4	27.4	25.8	23.3	20.0	30.8
80°	18.3	16.6	22.5	26.6	16.6	20.0	22.5	14.1	15.0
82.5°	9.1	8.3	10.8	10.8	10.8	5.8	15.0	9.1	7.5
85°	7.5	3.3	5.0	5.0	5.0	6.7	15.0	4.2	10.8
87.5°	1.7	2.5	4.2	4.2	5.0	8.3	15.0	3.3	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)