

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: P248079

Luminaire Tested: **LD8B175D010 ER8B175940 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17412.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

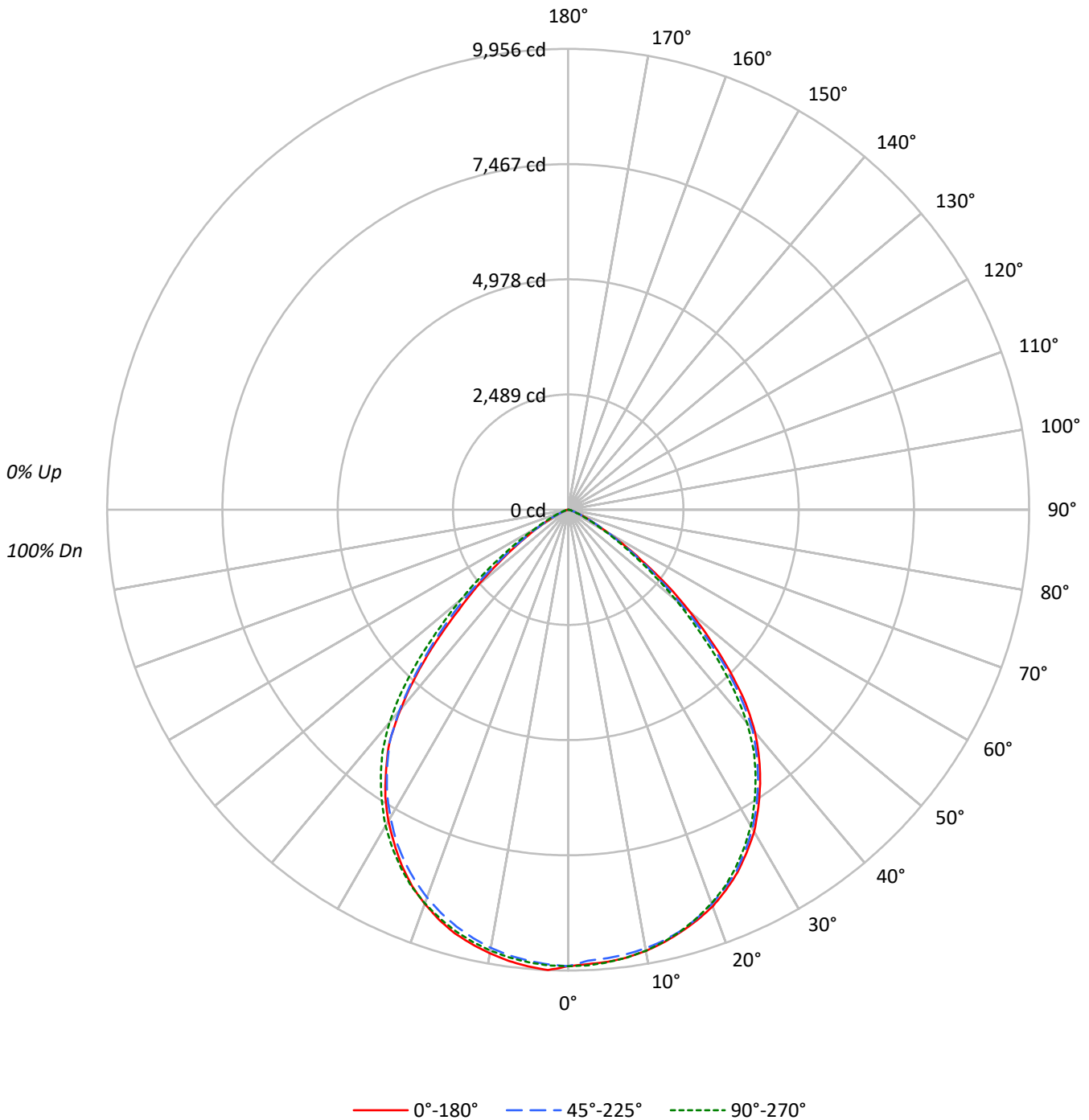
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248079

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBS0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P248079

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBS0WMH

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	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39					39			
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	304105	304105	304105
5°	303493	303805	306514
10°	303066	302878	304735
15°	301319	300773	302411
20°	299302	296926	297389
25°	294247	290722	288977
30°	285982	280937	276497
35°	272141	265591	258209
40°	252714	241866	226928
45°	215407	198260	176028
50°	164019	146125	121908
55°	108125	94233	75906
60°	60717	53396	41925
65°	31842	28471	20248
70°	15228	13416	8430
75°	8626	9341	5874
80°	6606	6428	3392
85°	3927	3220	1415



TEST NUMBER: P248079

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBS0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.3	5.3
10°-20°	2652.7	15.2
20°-30°	3918.9	22.5
30°-40°	4367.2	25.1
40°-50°	3448.9	19.8
50°-60°	1592.7	9.1
60°-70°	409.2	2.3
70°-80°	78.8	0.5
80°-90°	12.3	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°	7502.9	43.1
0°-40°	11870.1	68.2
0°-60°	16911.7	97.1
0°-90°	17412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9862	9862	9862	9862	9862	
5°	9805	9726	9815	9784	9902	932
15°	9439	9416	9422	9323	9473	2664
25°	8648	8608	8545	8374	8493	3974
35°	7229	7149	7055	6820	6859	4502
45°	4940	4796	4546	4183	4036	3770
55°	2011	1896	1753	1500	1412	1864
65°	436	442	390	299	278	479
75°	72	76	78	59	49	87
85°	11	11	9	5	4	15
90°	0	0	0	0	0	



TEST NUMBER: P248079

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBS0WMH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9861.9	9861.9	9861.9	9861.9	9861.9	9861.9	9861.9	9861.9	9861.9
2.5°	9824.7	9871.0	9753.3	9848.9	9852.9	9785.5	9831.8	9887.1	9955.5
5°	9804.6	9851.9	9726.2	9814.7	9814.7	9741.3	9784.5	9832.8	9902.2
7.5°	9757.4	9808.6	9685.0	9767.4	9754.3	9673.9	9712.1	9759.4	9833.8
10°	9678.9	9742.3	9621.6	9700.0	9672.9	9580.4	9613.6	9662.8	9732.2
12.5°	9571.3	9646.7	9534.1	9602.5	9559.3	9453.7	9480.8	9544.2	9612.6
15°	9438.6	9516.0	9416.5	9475.8	9421.5	9303.8	9322.9	9387.3	9472.8
17.5°	9290.8	9366.2	9254.6	9318.9	9246.5	9124.8	9131.9	9206.3	9283.7
20°	9120.8	9183.2	9068.5	9129.9	9048.4	8914.7	8915.7	8982.0	9062.5
22.5°	8897.6	8962.9	8844.3	8895.6	8821.1	8678.3	8661.3	8725.6	8803.0
25°	8648.2	8716.6	8608.0	8626.1	8544.6	8396.8	8373.6	8420.9	8493.3
27.5°	8349.5	8416.9	8294.2	8317.3	8227.8	8086.0	8054.9	8080.0	8137.3
30°	8031.7	8074.0	7957.3	7976.4	7890.0	7722.0	7674.8	7708.9	7765.3
32.5°	7640.6	7670.7	7571.2	7581.2	7487.7	7342.9	7280.6	7290.6	7347.9
35°	7229.3	7245.4	7148.8	7150.8	7055.3	6908.5	6820.0	6815.0	6859.2
37.5°	6775.7	6786.8	6689.3	6684.2	6585.7	6426.8	6334.3	6318.2	6345.4
40°	6278.0	6293.1	6191.5	6159.3	6008.5	5827.5	5676.6	5648.5	5637.4
42.5°	5674.6	5633.4	5526.8	5472.5	5320.6	5088.3	4948.6	4906.3	4870.1
45°	4939.5	4906.3	4795.7	4673.0	4546.3	4371.4	4183.3	4067.7	4036.5
47.5°	4168.2	4129.0	3970.1	3862.5	3737.8	3657.4	3455.2	3277.3	3199.8
50°	3419.0	3375.8	3198.8	3119.4	3046.0	2926.3	2730.2	2570.3	2541.2
52.5°	2726.2	2660.8	2509.0	2426.5	2361.2	2228.4	2051.4	1958.9	1909.6
55°	2011.2	2001.1	1895.6	1836.2	1752.8	1647.2	1500.4	1431.0	1411.9
57.5°	1465.2	1428.0	1387.7	1337.5	1265.0	1132.3	1041.8	989.5	985.5
60°	984.5	996.6	996.6	941.2	865.8	779.3	706.9	678.8	679.8
62.5°	660.7	668.7	666.7	642.6	584.3	513.9	466.6	446.5	447.5
65°	436.4	434.4	442.5	425.4	390.2	340.9	298.7	287.6	277.5
67.5°	277.5	280.6	277.5	268.5	247.4	212.2	184.0	166.9	161.9
70°	168.9	164.9	165.9	163.9	148.8	131.7	111.6	97.5	93.5
72.5°	101.6	104.6	105.6	108.6	106.6	94.5	80.4	70.4	68.4
75°	72.4	73.4	76.4	79.4	78.4	70.4	59.3	52.3	49.3
77.5°	54.3	54.3	56.3	60.3	57.3	50.3	42.2	36.2	34.2
80°	37.2	38.2	39.2	39.2	36.2	32.2	25.1	21.1	19.1
82.5°	22.1	23.1	22.1	22.1	20.1	16.1	12.1	11.1	10.1
85°	11.1	11.1	11.1	11.1	9.1	7.0	5.0	4.0	4.0
87.5°	5.0	5.0	5.0	4.0	3.0	2.0	2.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)