

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: P247953

Luminaire Tested: **LD8B175D010 ER8B175835 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247953
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 ER8B175835 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19902.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

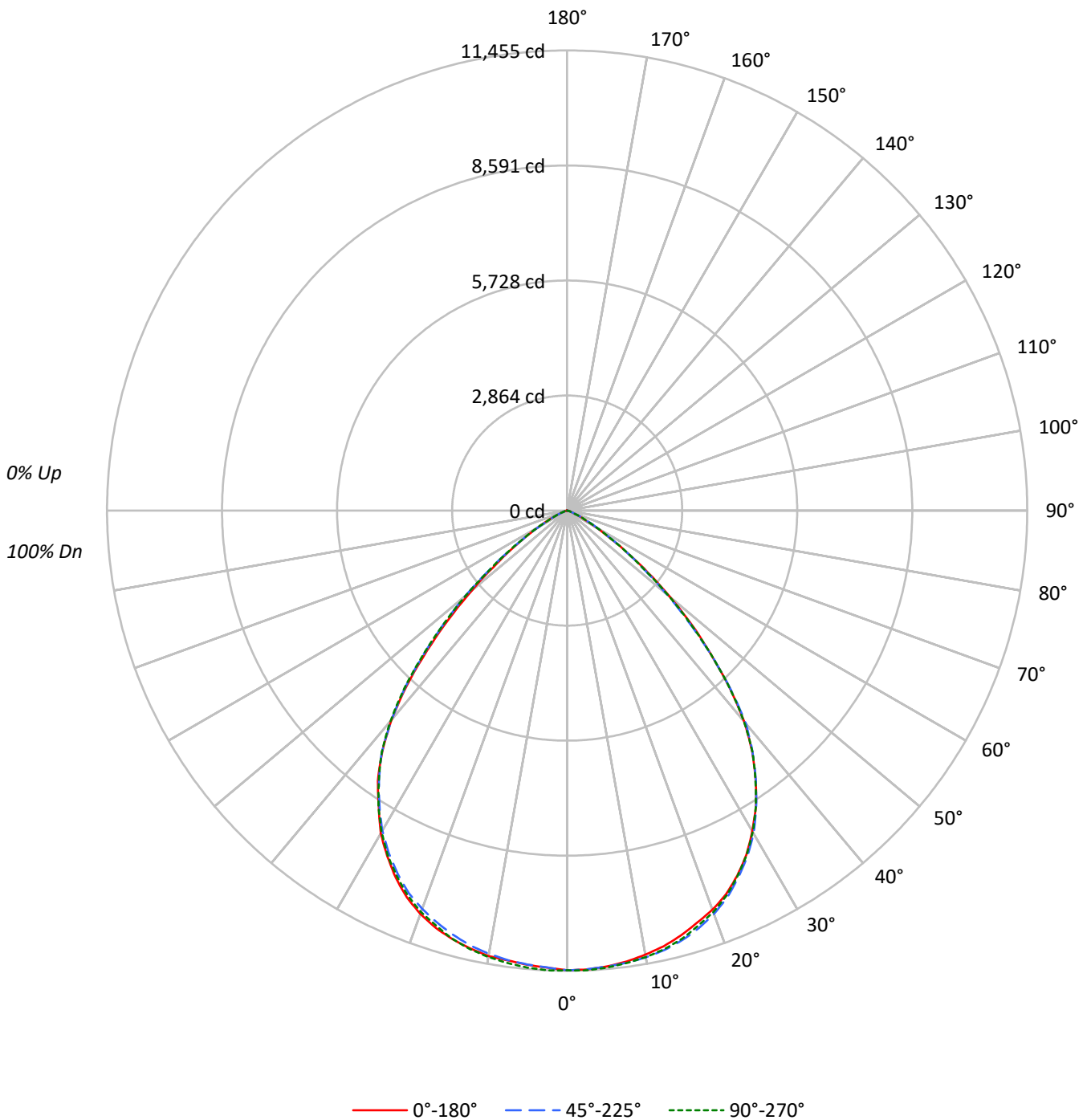
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	352882	352882	352882
5°	352623	353462	351329
10°	351396	353340	352564
15°	349508	352318	352570
20°	346963	349001	350560
25°	341075	341459	343382
30°	328159	328881	330370
35°	308088	307538	309322
40°	276231	275502	273550
45°	220623	220575	215010
50°	159452	157936	148836
55°	97722	96996	92567
60°	50202	52150	51386
65°	24465	25457	25866
70°	10486	10792	10278
75°	8209	8209	7125
80°	4404	4013	3605
85°	3609	2406	5201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.5	5.4
10°-20°	3107.8	15.6
20°-30°	4617.0	23.2
30°-40°	5088.1	25.6
40°-50°	3875.4	19.5
50°-60°	1670.6	8.4
60°-70°	383.8	1.9
70°-80°	63.8	0.3
80°-90°	12.0	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°	8808.3	44.3
0°-40°	13896.4	69.8
0°-60°	19442.5	97.7
0°-90°	19902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19902.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11444	11444	11444	11444	11444	
5°	11392	11391	11419	11342	11350	###
15°	10948	11070	11036	10938	11044	3088
25°	10024	10081	10036	9977	10092	4601
35°	8184	8189	8170	8163	8217	5081
45°	5059	5049	5058	5031	4930	3903
55°	1818	1817	1804	1816	1722	1695
65°	335	368	349	347	354	375
75°	69	69	69	70	60	63
85°	10	7	7	20	15	10
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°	11443.7	11443.7	11443.7	11443.7	11443.7	11443.7	11443.7	11443.7	11443.7
2.5°	11431.3	11432.4	11424.5	11441.5	11455.0	11411.0	11385.0	11443.7	11387.3
5°	11391.8	11399.7	11390.6	11412.1	11418.9	11382.7	11342.1	11405.3	11350.0
7.5°	11324.0	11339.8	11353.4	11378.2	11360.2	11315.0	11287.9	11362.4	11294.7
10°	11222.4	11261.9	11291.3	11328.6	11284.5	11236.0	11203.2	11304.8	11259.7
12.5°	11108.4	11153.6	11203.2	11248.4	11181.8	11110.7	11093.7	11202.1	11161.5
15°	10948.1	10989.8	11070.0	11112.9	11036.1	10954.8	10937.9	11075.7	11044.0
17.5°	10759.5	10832.9	10900.7	10934.5	10837.4	10767.4	10758.4	10900.7	10888.2
20°	10573.2	10612.8	10682.8	10727.9	10635.3	10551.8	10548.4	10695.2	10682.8
22.5°	10337.3	10372.3	10418.6	10460.3	10373.4	10303.4	10307.9	10428.7	10426.5
25°	10024.5	10048.2	10081.0	10127.3	10035.8	9986.2	9977.1	10105.8	10092.3
27.5°	9659.9	9675.7	9712.9	9752.4	9673.4	9629.4	9613.6	9742.3	9697.1
30°	9216.2	9252.3	9278.3	9295.2	9236.5	9209.4	9198.1	9299.7	9278.3
32.5°	8745.4	8757.8	8758.9	8800.7	8738.6	8700.2	8700.2	8781.5	8732.9
35°	8184.2	8182.0	8188.8	8233.9	8169.6	8183.1	8162.8	8227.1	8217.0
37.5°	7568.9	7579.1	7581.3	7617.5	7581.3	7590.4	7582.5	7592.6	7559.9
40°	6862.2	6906.2	6920.9	6914.1	6844.1	6820.4	6800.1	6837.3	6795.6
42.5°	5984.9	6005.2	6007.5	6012.0	5992.8	5989.4	5964.6	5980.4	5914.9
45°	5059.1	5068.2	5049.0	5045.6	5058.0	5077.2	5030.9	4994.8	4930.4
47.5°	4213.5	4181.9	4094.9	4126.6	4140.1	4188.7	4139.0	4041.9	3988.8
50°	3323.8	3291.1	3224.5	3239.1	3292.2	3365.6	3308.0	3173.7	3102.5
52.5°	2539.2	2501.9	2427.4	2440.9	2456.7	2512.1	2481.6	2390.1	2321.3
55°	1817.7	1791.7	1816.6	1796.3	1804.2	1857.2	1815.5	1739.8	1721.8
57.5°	1228.4	1243.0	1263.4	1266.8	1251.0	1235.1	1229.5	1200.1	1216.0
60°	814.0	825.3	859.2	869.3	845.6	811.8	818.5	818.5	833.2
62.5°	526.1	536.3	575.8	582.6	548.7	539.7	539.7	536.3	563.4
65°	335.3	355.6	368.1	350.0	348.9	336.4	346.6	346.6	354.5
67.5°	201.0	182.9	195.3	203.2	195.3	185.2	182.9	184.0	195.3
70°	116.3	111.8	119.7	115.2	119.7	103.9	116.3	110.6	114.0
72.5°	74.5	73.4	73.4	77.9	73.4	71.1	75.6	65.5	72.3
75°	68.9	68.9	68.9	59.8	68.9	66.6	70.0	53.1	59.8
77.5°	27.1	31.6	38.4	37.3	37.3	35.0	31.6	27.1	41.8
80°	24.8	22.6	30.5	36.1	22.6	27.1	30.5	19.2	20.3
82.5°	12.4	11.3	14.7	14.7	14.7	7.9	20.3	12.4	10.2
85°	10.2	4.5	6.8	6.8	6.8	9.0	20.3	5.6	14.7
87.5°	2.3	3.4	5.6	5.6	6.8	11.3	20.3	4.5	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)