

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: P247971

Luminaire Tested: **LD8B175D010 ER8B175940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247971
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 ER8B175940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17727.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

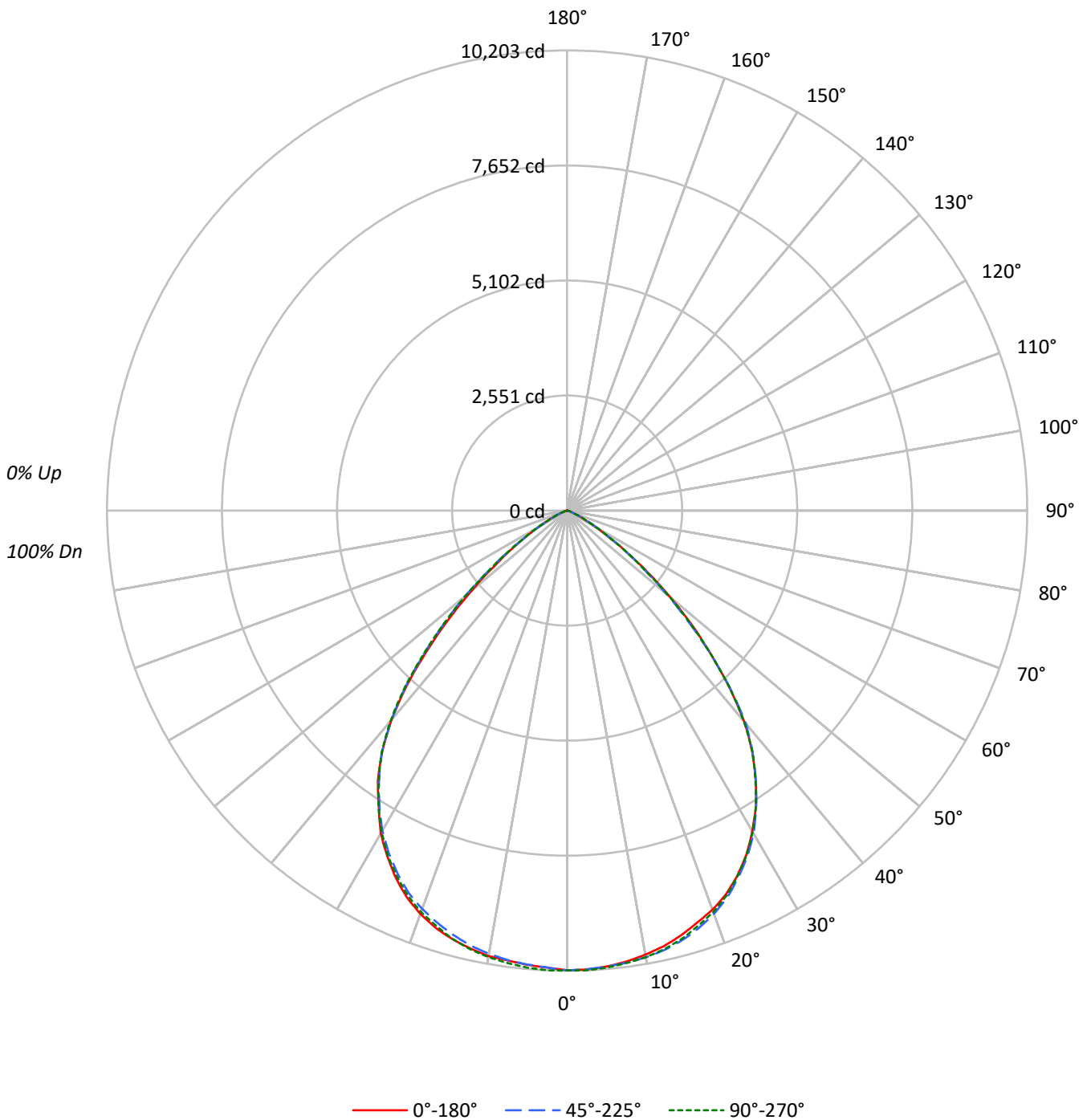
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	314318	314318	314318
5°	314085	314834	312934
10°	312995	314726	314034
15°	311311	313814	314041
20°	309045	310860	312248
25°	303801	304145	305853
30°	292295	292940	294265
35°	274419	273925	275518
40°	246040	245392	243653
45°	196511	196468	191514
50°	142028	140675	132573
55°	87045	86395	82449
60°	44719	46452	45773
65°	21795	22670	23042
70°	9341	9611	9160
75°	7303	7303	6350
80°	3925	3569	3214
85°	3220	2123	4635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.1	5.4
10°-20°	2768.2	15.6
20°-30°	4112.5	23.2
30°-40°	4532.1	25.6
40°-50°	3451.9	19.5
50°-60°	1488.1	8.4
60°-70°	341.8	1.9
70°-80°	56.8	0.3
80°-90°	10.7	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°	7845.7	44.3
0°-40°	12377.7	69.8
0°-60°	17317.7	97.7
0°-90°	17727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17727.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10193	10193	10193	10193	10193	
5°	10147	10146	10171	10103	10110	964
15°	9752	9860	9830	9743	9837	2751
25°	8929	8979	8939	8887	8989	4098
35°	7290	7294	7277	7271	7319	4526
45°	4506	4497	4505	4481	4392	3476
55°	1619	1618	1607	1617	1534	1510
65°	299	328	311	309	316	334
75°	61	61	61	62	53	56
85°	9	6	6	18	13	9
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°	10193.1	10193.1	10193.1	10193.1	10193.1	10193.1	10193.1	10193.1	10193.1
2.5°	10182.0	10183.0	10176.0	10191.1	10203.1	10163.9	10140.8	10193.1	10142.8
5°	10146.8	10153.9	10145.8	10164.9	10171.0	10138.8	10102.6	10158.9	10109.6
7.5°	10086.5	10100.6	10112.6	10134.8	10118.7	10078.4	10054.3	10120.7	10060.3
10°	9996.0	10031.2	10057.3	10090.5	10051.3	10008.0	9978.9	10069.4	10029.2
12.5°	9894.4	9934.6	9978.9	10019.1	9959.8	9896.4	9881.3	9977.9	9941.7
15°	9751.6	9788.8	9860.2	9898.4	9830.0	9757.6	9742.6	9865.2	9837.1
17.5°	9583.7	9649.0	9709.4	9739.5	9653.1	9590.7	9582.7	9709.4	9698.3
20°	9417.7	9452.9	9515.3	9555.5	9473.0	9398.6	9395.6	9526.3	9515.3
22.5°	9207.6	9238.7	9280.0	9317.2	9239.7	9177.4	9181.4	9289.0	9287.0
25°	8929.0	8950.1	8979.3	9020.5	8939.1	8894.8	8886.8	9001.4	8989.3
27.5°	8604.2	8618.3	8651.4	8686.6	8616.3	8577.0	8563.0	8677.6	8637.4
30°	8209.0	8241.2	8264.3	8279.4	8227.1	8202.9	8192.9	8283.4	8264.3
32.5°	7789.6	7800.7	7801.7	7838.9	7783.6	7749.4	7749.4	7821.8	7778.6
35°	7289.8	7287.8	7293.8	7334.1	7276.7	7288.8	7270.7	7328.0	7319.0
37.5°	6741.8	6750.8	6752.8	6785.0	6752.8	6760.9	6753.8	6762.9	6733.7
40°	6112.2	6151.4	6164.5	6158.5	6096.1	6075.0	6056.9	6090.1	6052.9
42.5°	5330.9	5349.0	5351.0	5355.0	5337.9	5334.9	5312.8	5326.8	5268.5
45°	4506.2	4514.3	4497.2	4494.2	4505.2	4522.3	4481.1	4448.9	4391.6
47.5°	3753.0	3724.9	3647.4	3675.6	3687.7	3730.9	3686.6	3600.2	3552.9
50°	2960.6	2931.4	2872.1	2885.2	2932.4	2997.8	2946.5	2826.8	2763.5
52.5°	2261.7	2228.5	2162.1	2174.2	2188.3	2237.5	2210.4	2128.9	2067.6
55°	1619.1	1595.9	1618.1	1600.0	1607.0	1654.3	1617.1	1549.7	1533.6
57.5°	1094.1	1107.2	1125.3	1128.3	1114.2	1100.2	1095.1	1069.0	1083.1
60°	725.1	735.1	765.3	774.3	753.2	723.0	729.1	729.1	742.2
62.5°	468.6	477.7	512.9	518.9	488.7	480.7	480.7	477.7	501.8
65°	298.7	316.8	327.8	311.7	310.7	299.7	308.7	308.7	315.8
67.5°	179.0	162.9	174.0	181.0	174.0	164.9	162.9	163.9	174.0
70°	103.6	99.6	106.6	102.6	106.6	92.5	103.6	98.6	101.6
72.5°	66.4	65.4	65.4	69.4	65.4	63.4	67.4	58.3	64.4
75°	61.3	61.3	61.3	53.3	61.3	59.3	62.3	47.3	53.3
77.5°	24.1	28.2	34.2	33.2	33.2	31.2	28.2	24.1	37.2
80°	22.1	20.1	27.2	32.2	20.1	24.1	27.2	17.1	18.1
82.5°	11.1	10.1	13.1	13.1	13.1	7.0	18.1	11.1	9.1
85°	9.1	4.0	6.0	6.0	6.0	8.0	18.1	5.0	13.1
87.5°	2.0	3.0	5.0	5.0	6.0	10.1	18.1	4.0	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)