

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: P247970

Luminaire Tested: **LD8B150D010 ER8B150940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247970
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: LD8B150D010 ER8B150940 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: 15701.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

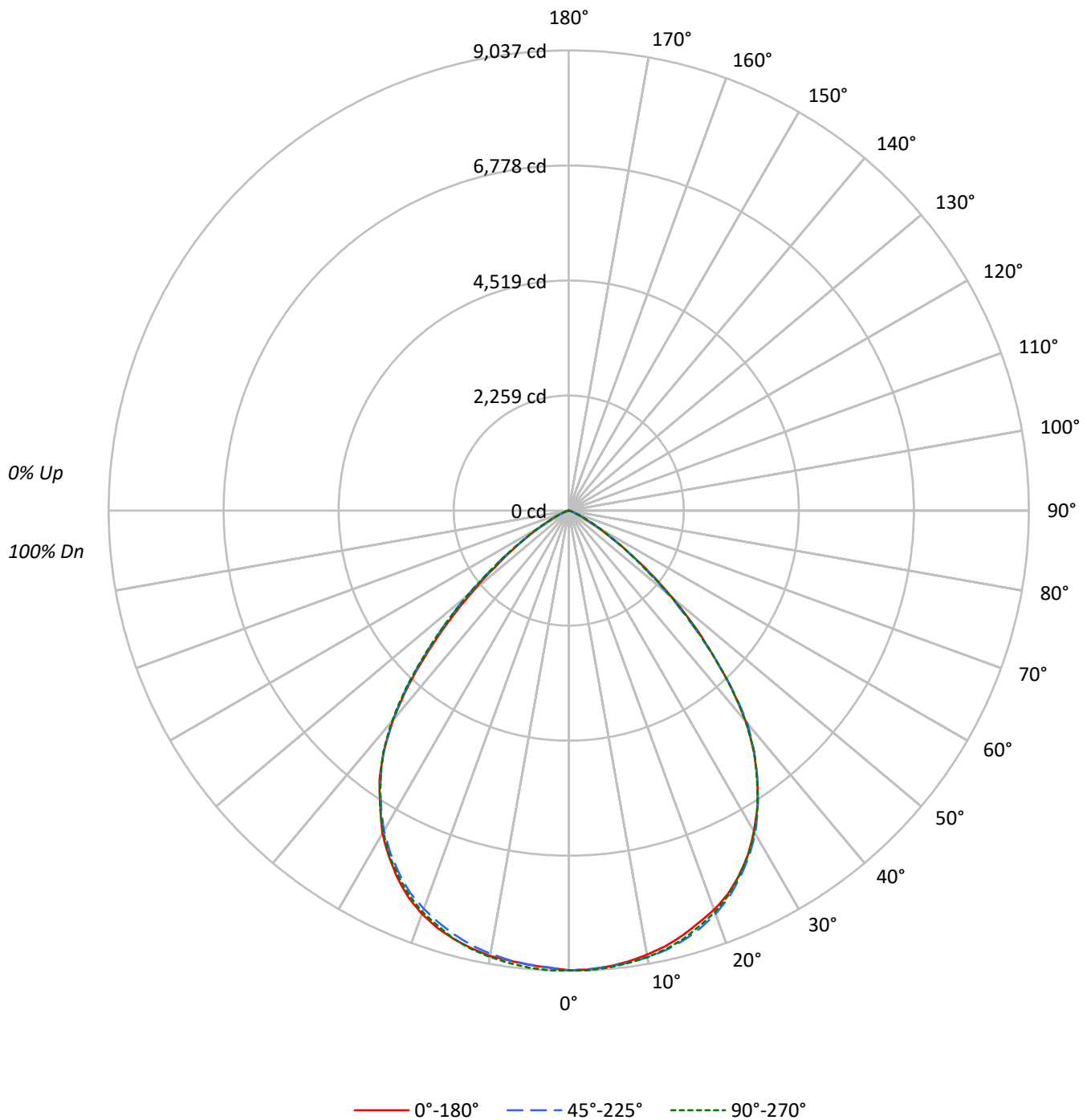
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	278393	278393	278393
5°	278191	278850	277169
10°	277221	278755	278141
15°	275732	277950	278148
20°	273726	275334	276561
25°	269080	269382	270900
30°	258889	259459	260634
35°	243057	242621	244028
40°	217923	217347	215805
45°	174053	174014	169626
50°	125794	124600	117418
55°	77094	76519	73024
60°	39606	41142	40537
65°	19299	20080	20408
70°	8268	8511	8114
75°	6469	6469	5624
80°	3481	3161	2841
85°	2830	1875	4104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.8	5.4
10°-20°	2451.8	15.6
20°-30°	3642.4	23.2
30°-40°	4014.1	25.6
40°-50°	3057.4	19.5
50°-60°	1318.0	8.4
60°-70°	302.8	1.9
70°-80°	50.3	0.3
80°-90°	9.5	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°	6949.0	44.3
0°-40°	10963.1	69.8
0°-60°	15338.5	97.7
0°-90°	15701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9028	9028	9028	9028	9028	
5°	8987	8986	9008	8948	8954	854
15°	8637	8733	8707	8629	8713	2436
25°	7908	7953	7917	7871	7962	3629
35°	6457	6460	6445	6440	6482	4009
45°	3991	3983	3990	3969	3890	3079
55°	1434	1433	1423	1432	1358	1337
65°	264	290	275	273	280	296
75°	54	54	54	55	47	50
85°	8	5	5	16	12	8
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°	9028.1	9028.1	9028.1	9028.1	9028.1	9028.1	9028.1	9028.1	9028.1
2.5°	9018.3	9019.2	9013.0	9026.3	9037.0	9002.3	8981.8	9028.1	8983.6
5°	8987.2	8993.4	8986.3	9003.2	9008.5	8980.0	8948.0	8997.8	8954.2
7.5°	8933.7	8946.2	8956.9	8976.5	8962.2	8926.6	8905.2	8964.0	8910.6
10°	8853.5	8884.7	8907.9	8937.3	8902.5	8864.2	8838.4	8918.6	8882.9
12.5°	8763.6	8799.2	8838.4	8874.0	8821.5	8765.4	8752.0	8837.5	8805.4
15°	8637.1	8670.1	8733.3	8767.1	8706.6	8642.5	8629.1	8737.8	8712.8
17.5°	8488.4	8546.3	8599.7	8626.4	8549.8	8494.6	8487.5	8599.7	8589.9
20°	8341.4	8372.6	8427.8	8463.4	8390.4	8324.5	8321.8	8437.6	8427.8
22.5°	8155.2	8182.9	8219.4	8252.3	8183.7	8128.5	8132.1	8227.4	8225.6
25°	7908.5	7927.2	7953.1	7989.6	7917.4	7878.2	7871.1	7972.6	7962.0
27.5°	7620.8	7633.3	7662.7	7693.9	7631.5	7596.8	7584.3	7685.8	7650.2
30°	7270.8	7299.3	7319.8	7333.1	7286.8	7265.4	7256.5	7336.7	7319.8
32.5°	6899.4	6909.2	6910.0	6943.0	6894.0	6863.7	6863.7	6927.9	6889.6
35°	6456.7	6454.9	6460.2	6495.9	6445.1	6455.8	6439.8	6490.5	6482.5
37.5°	5971.2	5979.3	5981.0	6009.5	5981.0	5988.2	5981.9	5990.0	5964.1
40°	5413.7	5448.4	5460.0	5454.6	5399.4	5380.7	5364.7	5394.1	5361.1
42.5°	4721.6	4737.6	4739.4	4743.0	4727.8	4725.2	4705.6	4718.0	4666.4
45°	3991.2	3998.3	3983.2	3980.5	3990.3	4005.5	3969.0	3940.5	3889.7
47.5°	3324.1	3299.1	3230.6	3255.5	3266.2	3304.5	3265.3	3188.7	3146.8
50°	2622.2	2596.4	2543.8	2555.4	2597.3	2655.2	2609.7	2503.8	2447.6
52.5°	2003.2	1973.8	1915.0	1925.7	1938.2	1981.8	1957.8	1885.6	1831.3
55°	1434.0	1413.5	1433.1	1417.1	1423.3	1465.2	1432.2	1372.6	1358.3
57.5°	969.1	980.7	996.7	999.4	986.9	974.4	970.0	946.8	959.3
60°	642.2	651.1	677.8	685.8	667.1	640.4	645.8	645.8	657.3
62.5°	415.1	423.1	454.3	459.6	432.9	425.8	425.8	423.1	444.5
65°	264.5	280.6	290.4	276.1	275.2	265.4	273.4	273.4	279.7
67.5°	158.5	144.3	154.1	160.3	154.1	146.1	144.3	145.2	154.1
70°	91.7	88.2	94.4	90.9	94.4	81.9	91.7	87.3	90.0
72.5°	58.8	57.9	57.9	61.5	57.9	56.1	59.7	51.7	57.0
75°	54.3	54.3	54.3	47.2	54.3	52.6	55.2	41.9	47.2
77.5°	21.4	24.9	30.3	29.4	29.4	27.6	24.9	21.4	33.0
80°	19.6	17.8	24.0	28.5	17.8	21.4	24.0	15.1	16.0
82.5°	9.8	8.9	11.6	11.6	11.6	6.2	16.0	9.8	8.0
85°	8.0	3.6	5.3	5.3	5.3	7.1	16.0	4.5	11.6
87.5°	1.8	2.7	4.5	4.5	5.3	8.9	16.0	3.6	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)