

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: P247946

Luminaire Tested: **LD8B150D010 ER8B150827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247946
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 ER8B150827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16537.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

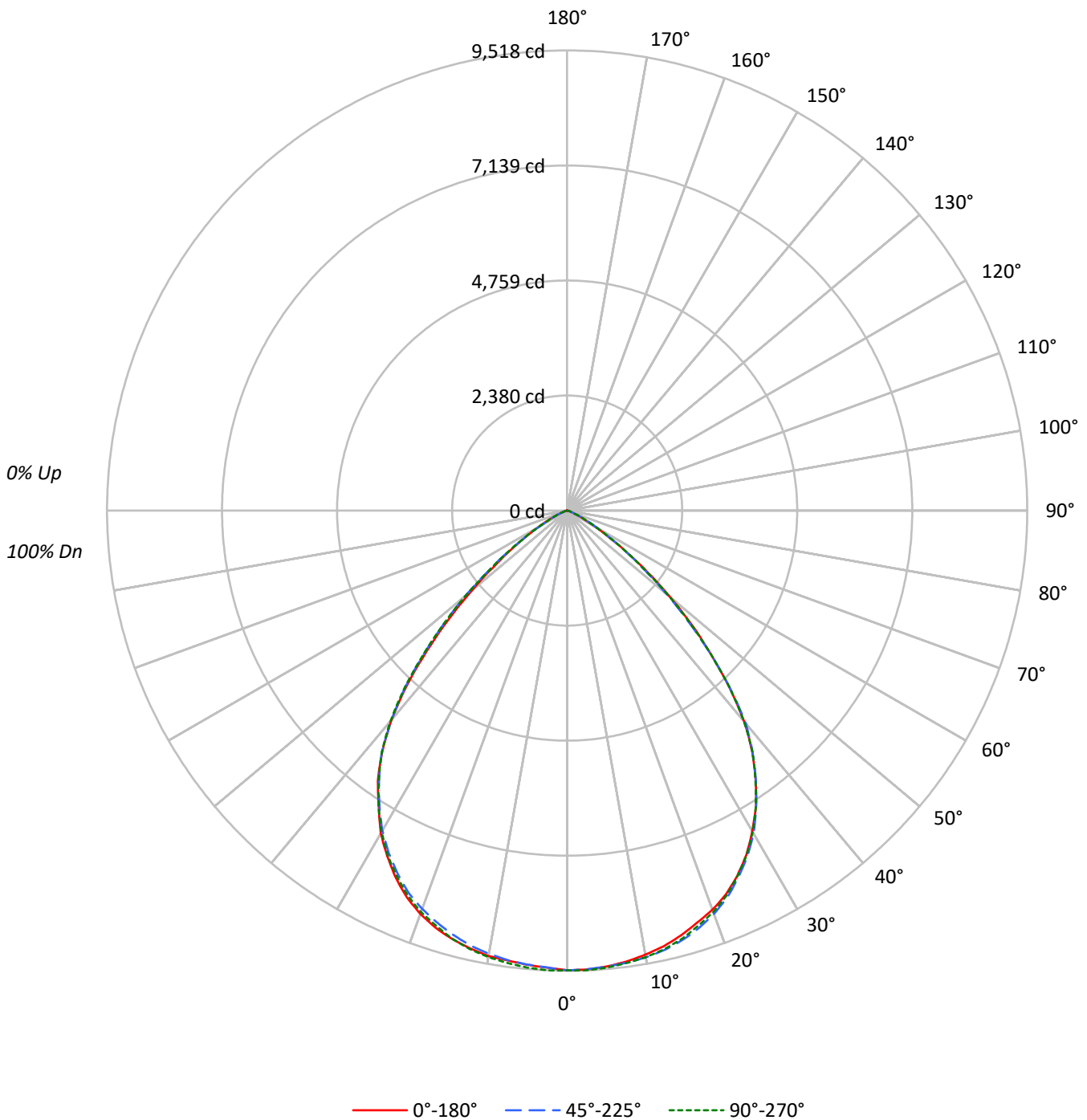
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	293216	293216	293216
5°	293002	293699	291928
10°	291985	293600	292952
15°	290414	292750	292958
20°	288299	289992	291285
25°	283407	283727	285323
30°	272673	273274	274510
35°	255999	255540	257023
40°	229524	228920	227298
45°	183320	183280	178658
50°	132491	131234	123674
55°	81201	80594	76911
60°	41715	43337	42696
65°	20328	21153	21495
70°	8709	8962	8547
75°	6815	6815	5921
80°	3658	3338	3001
85°	2972	1981	4316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.3	5.4
10°-20°	2582.4	15.6
20°-30°	3836.4	23.2
30°-40°	4227.8	25.6
40°-50°	3220.2	19.5
50°-60°	1388.2	8.4
60°-70°	318.9	1.9
70°-80°	53.0	0.3
80°-90°	10.0	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°	7319.0	44.3
0°-40°	11546.8	69.8
0°-60°	16155.2	97.7
0°-90°	16537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16537.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9509	9509	9509	9509	9509	
5°	9466	9465	9488	9424	9431	899
15°	9097	9198	9170	9088	9177	2566
25°	8330	8376	8339	8290	8386	3823
35°	6800	6804	6788	6783	6828	4222
45°	4204	4195	4203	4180	4097	3243
55°	1510	1509	1499	1508	1431	1408
65°	279	306	290	288	295	311
75°	57	57	57	58	50	53
85°	8	6	6	17	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°	9508.8	9508.8	9508.8	9508.8	9508.8	9508.8	9508.8	9508.8	9508.8
2.5°	9498.5	9499.4	9492.9	9507.0	9518.2	9481.6	9460.0	9508.8	9461.9
5°	9465.7	9472.2	9464.7	9482.6	9488.2	9458.2	9424.4	9476.9	9431.0
7.5°	9409.4	9422.5	9433.8	9454.4	9439.4	9401.9	9379.4	9441.3	9385.0
10°	9325.0	9357.8	9382.2	9413.1	9376.6	9336.2	9309.0	9393.4	9355.9
12.5°	9230.2	9267.7	9309.0	9346.5	9291.2	9232.1	9218.0	9308.1	9274.3
15°	9097.0	9131.7	9198.3	9234.0	9170.2	9102.6	9088.5	9203.0	9176.7
17.5°	8940.3	9001.3	9057.6	9085.7	9005.1	8946.9	8939.4	9057.6	9047.3
20°	8785.5	8818.4	8876.5	8914.1	8837.1	8767.7	8764.9	8886.9	8876.5
22.5°	8589.5	8618.5	8657.0	8691.7	8619.5	8561.3	8565.1	8665.5	8663.6
25°	8329.6	8349.3	8376.5	8415.0	8339.0	8297.7	8290.2	8397.2	8385.9
27.5°	8026.6	8039.7	8070.7	8103.5	8037.8	8001.3	7988.1	8095.1	8057.5
30°	7657.9	7687.9	7709.5	7723.6	7674.8	7652.3	7642.9	7727.3	7709.5
32.5°	7266.7	7277.0	7278.0	7312.7	7261.1	7229.2	7229.2	7296.7	7256.4
35°	6800.5	6798.6	6804.2	6841.7	6788.3	6799.5	6782.6	6836.1	6827.7
37.5°	6289.2	6297.6	6299.5	6329.5	6299.5	6307.0	6300.4	6308.9	6281.7
40°	5701.9	5738.5	5750.7	5745.1	5686.9	5667.2	5650.3	5681.3	5646.6
42.5°	4973.0	4989.9	4991.8	4995.5	4979.6	4976.7	4956.1	4969.2	4914.8
45°	4203.7	4211.2	4195.3	4192.5	4202.8	4218.7	4180.3	4150.3	4096.8
47.5°	3501.1	3474.8	3402.6	3428.8	3440.1	3480.4	3439.2	3358.5	3314.4
50°	2761.8	2734.6	2679.3	2691.5	2735.6	2796.5	2748.7	2637.1	2578.0
52.5°	2109.8	2078.9	2017.0	2028.2	2041.4	2087.3	2062.0	1986.0	1928.8
55°	1510.4	1488.8	1509.4	1492.6	1499.1	1543.2	1508.5	1445.6	1430.6
57.5°	1020.7	1032.9	1049.8	1052.6	1039.4	1026.3	1021.6	997.2	1010.4
60°	676.4	685.8	713.9	722.4	702.7	674.5	680.1	680.1	692.3
62.5°	437.2	445.6	478.4	484.1	455.9	448.4	448.4	445.6	468.1
65°	278.6	295.5	305.8	290.8	289.9	279.6	288.0	288.0	294.6
67.5°	167.0	152.0	162.3	168.9	162.3	153.9	152.0	152.9	162.3
70°	96.6	92.9	99.4	95.7	99.4	86.3	96.6	91.9	94.8
72.5°	61.9	61.0	61.0	64.7	61.0	59.1	62.9	54.4	60.0
75°	57.2	57.2	57.2	49.7	57.2	55.3	58.2	44.1	49.7
77.5°	22.5	26.3	31.9	31.0	31.0	29.1	26.3	22.5	34.7
80°	20.6	18.8	25.3	30.0	18.8	22.5	25.3	15.9	16.9
82.5°	10.3	9.4	12.2	12.2	12.2	6.6	16.9	10.3	8.4
85°	8.4	3.8	5.6	5.6	5.6	7.5	16.9	4.7	12.2
87.5°	1.9	2.8	4.7	4.7	5.6	9.4	16.9	3.8	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)