

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: P247958

Luminaire Tested: **LD8B150D010 ER8B150850 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247958
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 ER8B150850 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17856.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

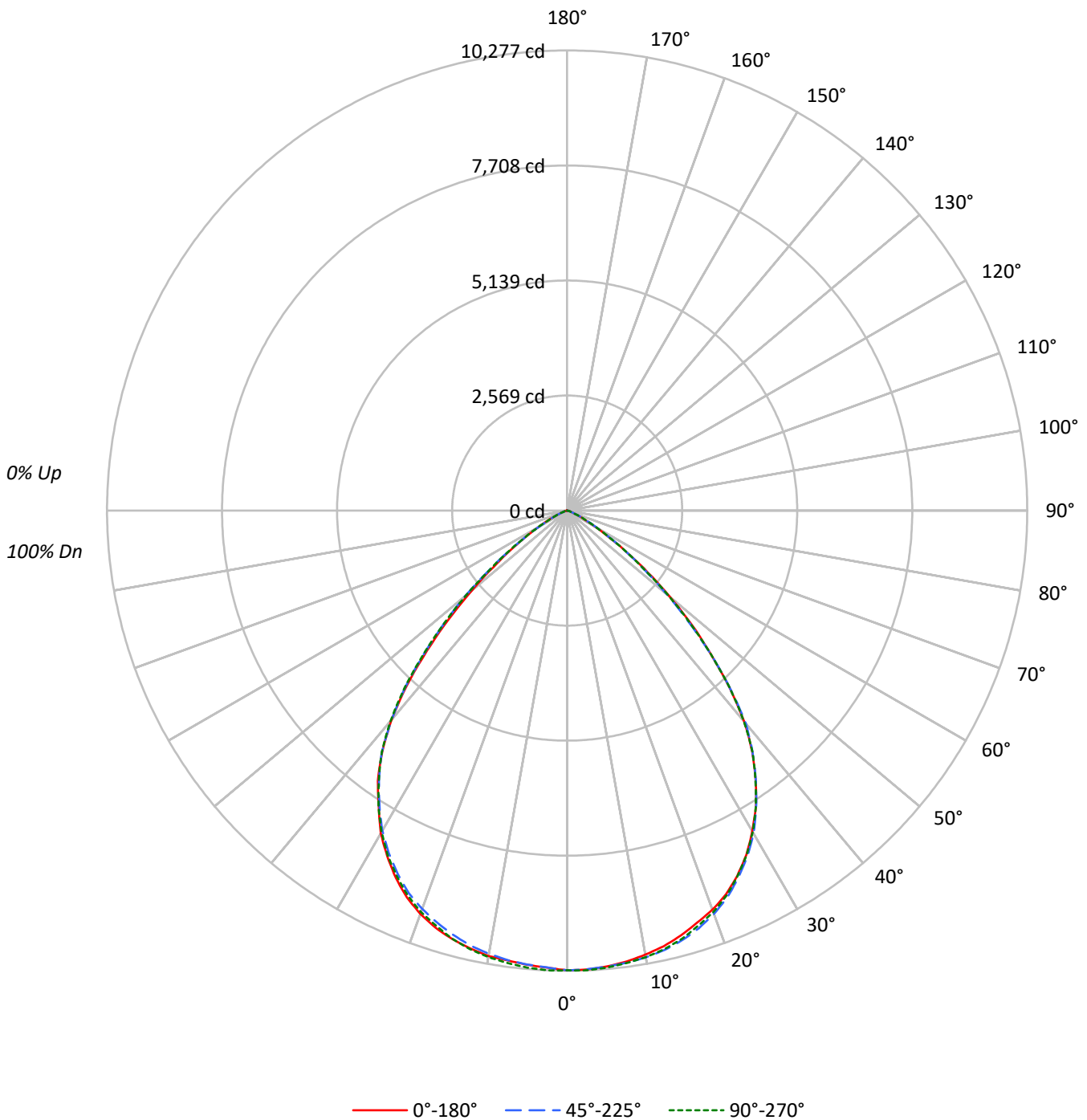
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247958

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBS0H

Luminous Intensity Polar Plot





TEST NUMBER: P247958

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBS0H

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°	316606	316606	316606
5°	316373	317125	315212
10°	315271	317015	316317
15°	313578	316100	316326
20°	311296	313124	314518
25°	306013	306356	308081
30°	294421	295069	296404
35°	276418	275921	277520
40°	247831	247179	245424
45°	197942	197898	192909
50°	143060	141702	133537
55°	87674	87024	83045
60°	45040	46791	46106
65°	21948	22838	23210
70°	9404	9683	9223
75°	7363	7363	6398
80°	3960	3605	3232
85°	3220	2158	4670



TEST NUMBER: P247958

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBS0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.1	5.4
10°-20°	2788.3	15.6
20°-30°	4142.4	23.2
30°-40°	4565.0	25.6
40°-50°	3477.0	19.5
50°-60°	1498.9	8.4
60°-70°	344.3	1.9
70°-80°	57.2	0.3
80°-90°	10.8	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°	7902.8	44.3
0°-40°	12467.8	69.8
0°-60°	17443.7	97.7
0°-90°	17856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17856.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10267	10267	10267	10267	10267	
5°	10221	10220	10245	10176	10183	971
15°	9823	9932	9902	9814	9909	2771
25°	8994	9045	9004	8951	9055	4128
35°	7343	7347	7330	7324	7372	4559
45°	4539	4530	4538	4514	4424	3501
55°	1631	1630	1619	1629	1545	1521
65°	301	330	313	311	318	336
75°	62	62	62	63	54	57
85°	9	6	6	18	13	9
90°	0	0	0	0	0	



TEST NUMBER: P247958

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBS0H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10267.3	10267.3	10267.3	10267.3	10267.3	10267.3	10267.3	10267.3	10267.3
2.5°	10256.1	10257.1	10250.0	10265.2	10277.4	10237.9	10214.6	10267.3	10216.6
5°	10220.7	10227.8	10219.6	10238.9	10245.0	10212.6	10176.1	10232.8	10183.2
7.5°	10159.9	10174.1	10186.2	10208.5	10192.3	10151.8	10127.5	10194.3	10133.5
10°	10068.7	10104.2	10130.5	10163.9	10124.4	10080.9	10051.5	10142.7	10102.1
12.5°	9966.4	10006.9	10051.5	10092.0	10032.3	9968.4	9953.2	10050.5	10014.0
15°	9822.6	9860.1	9932.0	9970.5	9901.6	9828.6	9813.5	9937.0	9908.7
17.5°	9653.4	9719.3	9780.0	9810.4	9723.3	9660.5	9652.4	9780.0	9768.9
20°	9486.3	9521.7	9584.5	9625.0	9542.0	9467.0	9464.0	9595.7	9584.5
22.5°	9274.6	9306.0	9347.5	9385.0	9307.0	9244.2	9248.2	9356.6	9354.6
25°	8994.0	9015.3	9044.6	9086.2	9004.1	8959.5	8951.4	9066.9	9054.8
27.5°	8666.8	8681.0	8714.4	8749.9	8679.0	8639.4	8625.3	8740.7	8700.2
30°	8268.7	8301.1	8324.4	8339.6	8286.9	8262.6	8252.5	8343.7	8324.4
32.5°	7846.3	7857.4	7858.5	7895.9	7840.2	7805.8	7805.8	7878.7	7835.2
35°	7342.9	7340.8	7346.9	7387.4	7329.7	7341.9	7323.6	7381.4	7372.2
37.5°	6790.8	6799.9	6802.0	6834.4	6802.0	6810.1	6803.0	6812.1	6782.7
40°	6156.7	6196.2	6209.4	6203.3	6140.5	6119.2	6101.0	6134.4	6096.9
42.5°	5369.6	5387.9	5389.9	5394.0	5376.7	5373.7	5351.4	5365.6	5306.8
45°	4539.0	4547.1	4529.9	4526.9	4538.0	4555.2	4513.7	4481.3	4423.6
47.5°	3780.3	3752.0	3674.0	3702.3	3714.5	3758.0	3713.5	3626.4	3578.8
50°	2982.1	2952.7	2893.0	2906.2	2953.8	3019.6	2967.9	2847.4	2783.6
52.5°	2278.1	2244.7	2177.8	2190.0	2204.2	2253.8	2226.5	2144.4	2082.6
55°	1630.8	1607.6	1629.8	1611.6	1618.7	1666.3	1628.8	1561.0	1544.7
57.5°	1102.1	1115.3	1133.5	1136.5	1122.3	1108.2	1103.1	1076.8	1090.9
60°	730.3	740.5	770.9	780.0	758.7	728.3	734.4	734.4	747.6
62.5°	472.0	481.2	516.6	522.7	492.3	484.2	484.2	481.2	505.5
65°	300.8	319.1	330.2	314.0	313.0	301.9	311.0	311.0	318.1
67.5°	180.3	164.1	175.2	182.3	175.2	166.1	164.1	165.1	175.2
70°	104.3	100.3	107.4	103.3	107.4	93.2	104.3	99.3	102.3
72.5°	66.9	65.8	65.8	69.9	65.8	63.8	67.9	58.8	64.8
75°	61.8	61.8	61.8	53.7	61.8	59.8	62.8	47.6	53.7
77.5°	24.3	28.4	34.4	33.4	33.4	31.4	28.4	24.3	37.5
80°	22.3	20.3	27.3	32.4	20.3	24.3	27.3	17.2	18.2
82.5°	11.1	10.1	13.2	13.2	13.2	7.1	18.2	11.1	9.1
85°	9.1	4.1	6.1	6.1	6.1	8.1	18.2	5.1	13.2
87.5°	2.0	3.0	5.1	5.1	6.1	10.1	18.2	4.1	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)