

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: P247877

Luminaire Tested: **LD8B150D010 ER8B150830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150830 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17441.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

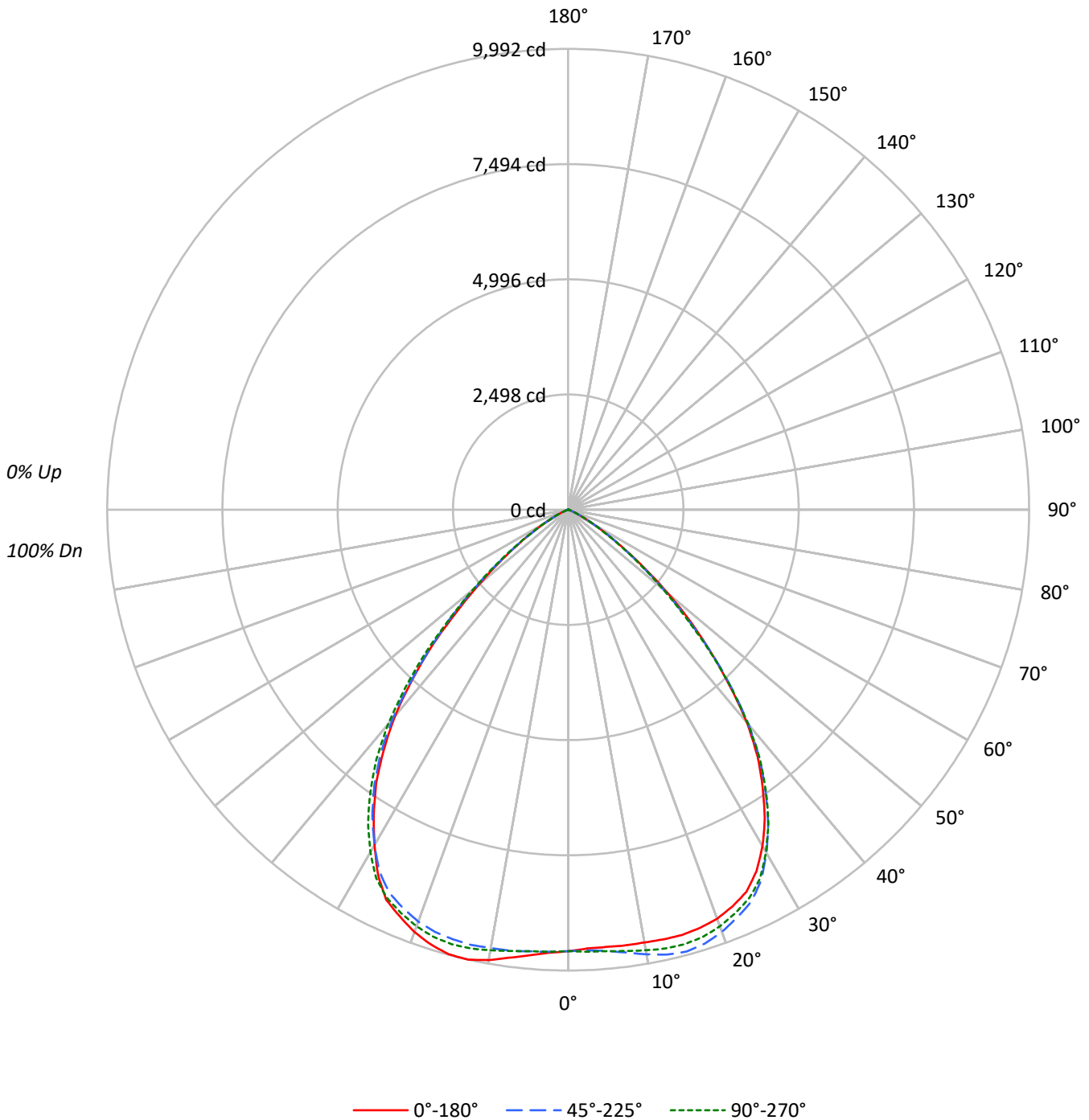
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	295171	295171	295171
5°	294603	297432	300199
10°	298310	303761	310506
15°	304757	311356	318603
20°	309731	315441	319795
25°	310929	316002	317540
30°	299919	305157	298854
35°	276606	281458	273169
40°	242518	244337	235047
45°	190432	188884	181667
50°	135307	128989	120177
55°	80497	77599	72691
60°	40389	38730	38428
65°	16979	16351	16767
70°	6329	5464	5292
75°	2526	2752	2752
80°	2895	2042	675
85°	3078	5767	2371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	920.6	5.3
10°-20°	2756.2	15.8
20°-30°	4236.0	24.3
30°-40°	4582.6	26.3
40°-50°	3303.0	18.9
50°-60°	1340.8	7.7
60°-70°	267.8	1.5
70°-80°	26.8	0.2
80°-90°	7.2	0.0
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°	7912.8	45.4
0°-40°	12495.4	71.6
0°-60°	17139.2	98.3
0°-90°	17441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9572	9572	9572	9572	9572	
5°	9517	9598	9609	9613	9698	909
15°	9546	9916	9753	9644	9980	2697
25°	9138	9382	9288	9168	9333	4177
35°	7348	7456	7477	7324	7257	4563
45°	4367	4388	4331	4186	4166	3368
55°	1497	1451	1443	1394	1352	1405
65°	233	252	224	214	230	277
75°	21	26	23	22	23	28
85°	9	12	16	8	7	7
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°	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2	9572.2
2.5°	9523.2	9583.8	9563.6	9537.6	9592.4	9581.8	9593.4	9598.2	9616.5
5°	9517.4	9585.7	9598.2	9570.3	9608.8	9590.5	9612.6	9654.0	9698.2
7.5°	9527.0	9629.9	9683.8	9667.4	9649.2	9586.6	9644.3	9739.5	9798.2
10°	9527.0	9663.6	9788.6	9787.6	9701.1	9584.7	9649.2	9813.6	9916.5
12.5°	9542.4	9709.7	9880.9	9892.5	9745.3	9598.2	9667.4	9861.7	9992.5
15°	9546.3	9710.7	9916.5	9922.3	9753.0	9579.9	9644.3	9853.0	9980.0
17.5°	9505.9	9664.5	9859.8	9879.9	9709.7	9533.8	9599.1	9785.7	9886.7
20°	9438.6	9580.9	9739.5	9773.2	9612.6	9445.3	9503.0	9663.6	9745.3
22.5°	9309.7	9439.5	9570.3	9595.3	9466.4	9320.3	9349.1	9474.1	9542.4
25°	9138.5	9267.4	9381.8	9395.3	9287.6	9156.8	9168.3	9263.5	9332.8
27.5°	8834.6	8956.8	9060.6	9077.0	9012.5	8873.1	8851.9	8897.1	8926.0
30°	8423.1	8506.7	8593.3	8645.2	8570.2	8454.8	8395.2	8419.2	8393.2
32.5°	7928.8	8014.4	8067.2	8083.6	8072.1	7971.1	7900.9	7840.3	7844.1
35°	7347.9	7425.8	7455.6	7485.5	7476.8	7397.9	7323.9	7267.2	7256.6
37.5°	6739.2	6791.1	6824.8	6847.9	6828.6	6778.6	6682.5	6584.4	6568.0
40°	6024.7	6103.6	6076.6	6088.2	6069.9	6006.4	5910.3	5854.5	5839.1
42.5°	5186.2	5255.4	5249.6	5253.5	5213.1	5126.5	5042.9	5012.1	4995.7
45°	4366.8	4400.5	4388.0	4347.6	4331.3	4277.4	4186.0	4127.4	4165.8
47.5°	3595.6	3584.1	3500.4	3467.7	3443.7	3451.3	3431.2	3328.3	3272.5
50°	2820.5	2790.7	2710.9	2661.8	2688.8	2709.9	2634.9	2573.4	2505.1
52.5°	2091.6	2097.3	2021.4	1967.5	1992.5	1996.4	1952.1	1917.5	1897.3
55°	1497.3	1497.3	1451.1	1433.8	1443.4	1425.2	1394.4	1382.8	1352.1
57.5°	1018.4	1025.1	1022.2	1002.0	956.8	940.5	923.2	940.5	951.1
60°	654.9	671.2	668.3	666.4	628.0	589.5	605.8	621.2	623.1
62.5°	402.9	410.6	424.1	412.5	393.3	362.5	358.7	381.8	402.9
65°	232.7	241.4	252.0	244.3	224.1	219.3	213.5	226.0	229.8
67.5°	132.7	128.9	129.8	124.1	118.3	111.6	112.5	118.3	126.9
70°	70.2	60.6	61.5	55.8	60.6	53.9	51.9	56.7	58.7
72.5°	35.6	34.6	39.4	39.4	42.3	37.5	37.5	35.6	40.4
75°	21.2	24.0	26.0	28.8	23.1	22.1	22.1	22.1	23.1
77.5°	5.8	2.9	3.8	12.5	4.8	9.6	4.8	3.8	8.7
80°	16.3	9.6	5.8	10.6	11.5	5.8	14.4	13.5	3.8
82.5°	5.8	0.0	10.6	11.5	9.6	9.6	11.5	11.5	10.6
85°	8.7	5.8	12.5	14.4	16.3	9.6	7.7	4.8	6.7
87.5°	3.8	0.0	5.8	4.8	2.9	1.0	2.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)