

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: P247896

Luminaire Tested: **LD8B175D010 ER8B175935 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247896  
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: LD8B175D010 ER8B175935 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17462.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 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

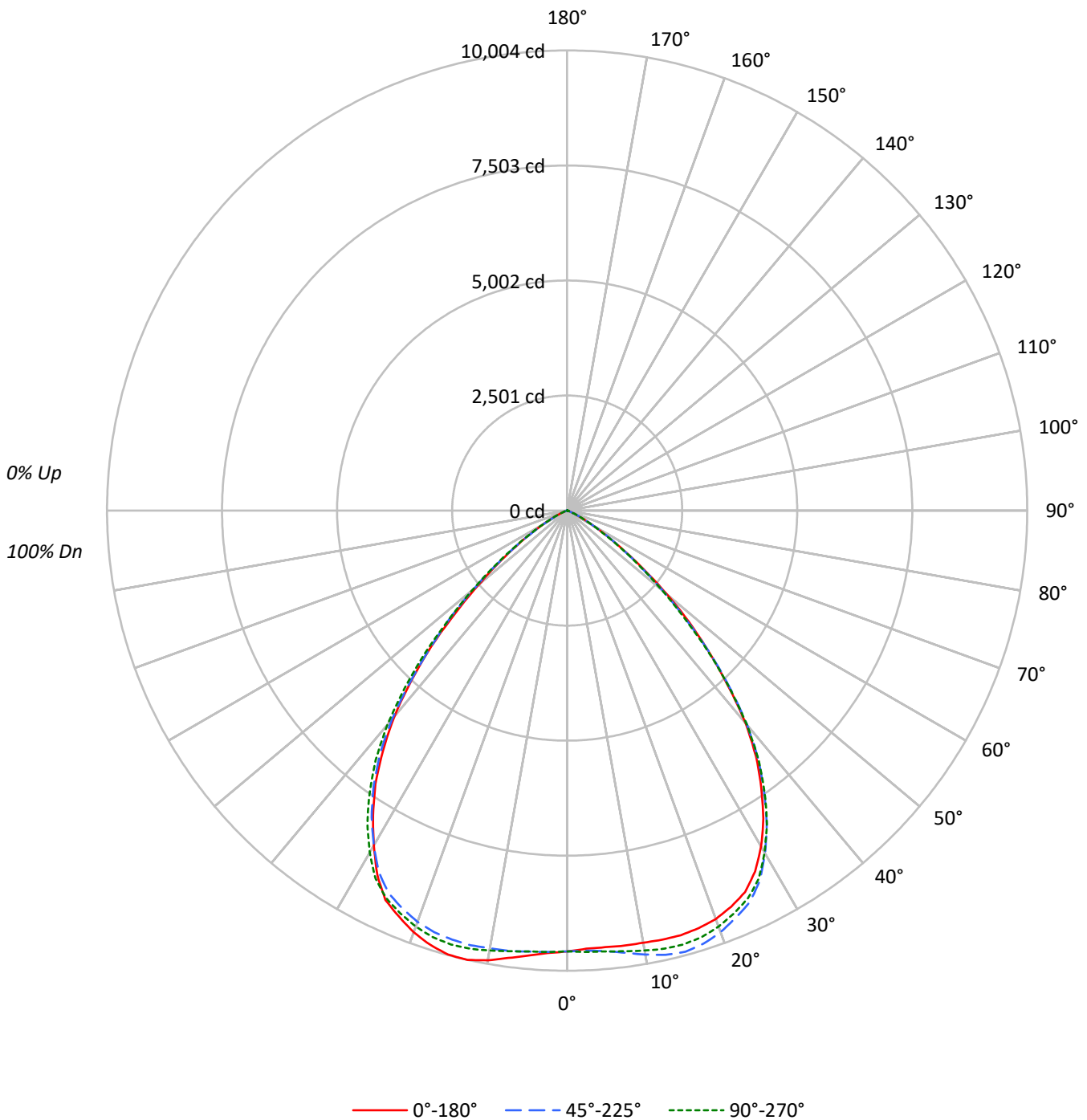
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	295526	295526	295526
5°	294959	297788	300561
10°	298670	304127	310878
15°	305124	311732	318986
20°	310101	315821	320182
25°	311304	316383	317921
30°	300278	305523	299217
35°	276941	281797	273496
40°	242812	244631	235329
45°	190663	189111	181889
50°	135470	129143	120321
55°	80594	77696	72777
60°	40439	38774	38478
65°	17001	16366	16789
70°	6338	5473	5292
75°	2526	2752	2752
80°	2912	2060	693
85°	3078	5802	2371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.7	5.3
10°-20°	2759.5	15.8
20°-30°	4241.1	24.3
30°-40°	4588.1	26.3
40°-50°	3307.0	18.9
50°-60°	1342.4	7.7
60°-70°	268.1	1.5
70°-80°	26.9	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°	7922.3	45.4
0°-40°	12510.4	71.6
0°-60°	17159.8	98.3
0°-90°	17462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9584	9584	9584	9584	9584	
5°	9529	9610	9620	9624	9710	910
15°	9558	9928	9765	9656	9992	2700
25°	9150	9393	9299	9179	9344	4182
35°	7357	7465	7486	7333	7265	4568
45°	4372	4393	4336	4191	4171	3372
55°	1499	1453	1445	1396	1354	1406
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°	9583.7	9583.7	9583.7	9583.7	9583.7	9583.7	9583.7	9583.7	9583.7
2.5°	9534.6	9595.3	9575.1	9549.1	9604.0	9593.4	9604.9	9609.7	9628.0
5°	9528.9	9597.2	9609.7	9581.8	9620.3	9602.0	9624.2	9665.6	9709.9
7.5°	9538.5	9641.5	9695.4	9679.1	9660.8	9598.2	9656.0	9751.3	9810.0
10°	9538.5	9675.2	9800.4	9799.4	9712.8	9596.3	9660.8	9825.4	9928.4
12.5°	9553.9	9721.4	9892.8	9904.4	9757.1	9609.7	9679.1	9873.6	10004.5
15°	9557.8	9722.4	9928.4	9934.2	9764.8	9591.5	9656.0	9864.9	9992.0
17.5°	9517.3	9676.2	9871.6	9891.8	9721.4	9545.2	9610.7	9797.5	9898.6
20°	9449.9	9592.4	9751.3	9785.0	9624.2	9456.7	9514.4	9675.2	9757.1
22.5°	9320.9	9450.9	9581.8	9606.9	9477.8	9331.5	9360.4	9485.5	9553.9
25°	9149.5	9278.5	9393.1	9406.6	9298.8	9167.8	9179.4	9274.7	9344.0
27.5°	8845.3	8967.6	9071.5	9087.9	9023.4	8883.8	8862.6	8907.9	8936.7
30°	8433.2	8517.0	8603.6	8655.6	8580.5	8465.0	8405.3	8429.3	8403.4
32.5°	7938.3	8024.0	8077.0	8093.3	8081.8	7980.7	7910.4	7849.7	7853.6
35°	7356.8	7434.8	7464.6	7494.5	7485.8	7406.8	7332.7	7275.9	7265.3
37.5°	6747.3	6799.3	6833.0	6856.1	6836.9	6786.8	6690.5	6592.3	6575.9
40°	6032.0	6110.9	6084.0	6095.5	6077.2	6013.7	5917.4	5861.5	5846.1
42.5°	5192.4	5261.7	5255.9	5259.8	5219.4	5132.7	5048.9	5018.1	5001.8
45°	4372.1	4405.8	4393.3	4352.8	4336.5	4282.6	4191.1	4132.4	4170.9
47.5°	3599.9	3588.4	3504.6	3471.9	3447.8	3455.5	3435.3	3332.3	3276.4
50°	2823.9	2794.1	2714.1	2665.0	2692.0	2713.2	2638.1	2576.5	2508.1
52.5°	2094.1	2099.9	2023.8	1969.9	1994.9	1998.8	1954.5	1919.8	1899.6
55°	1499.1	1499.1	1452.9	1435.5	1445.2	1426.9	1396.1	1384.5	1353.7
57.5°	1019.6	1026.3	1023.5	1003.2	958.0	941.6	924.3	941.6	952.2
60°	655.7	672.0	669.1	667.2	628.7	590.2	606.6	622.0	623.9
62.5°	403.4	411.1	424.6	413.0	393.8	363.0	359.1	382.2	403.4
65°	233.0	241.7	252.3	244.6	224.3	219.5	213.7	226.3	230.1
67.5°	132.9	129.0	130.0	124.2	118.4	111.7	112.6	118.4	127.1
70°	70.3	60.7	61.6	55.8	60.7	53.9	52.0	56.8	58.7
72.5°	35.6	34.7	39.5	39.5	42.4	37.5	37.5	35.6	40.4
75°	21.2	24.1	26.0	28.9	23.1	22.1	22.1	22.1	23.1
77.5°	5.8	2.9	3.9	12.5	4.8	9.6	4.8	3.9	8.7
80°	16.4	9.6	5.8	10.6	11.6	5.8	14.4	13.5	3.9
82.5°	5.8	0.0	10.6	11.6	9.6	9.6	11.6	11.6	10.6
85°	8.7	5.8	12.5	14.4	16.4	9.6	7.7	4.8	6.7
87.5°	3.9	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)