

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: CORELITE

Report Number: P298193

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3084.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

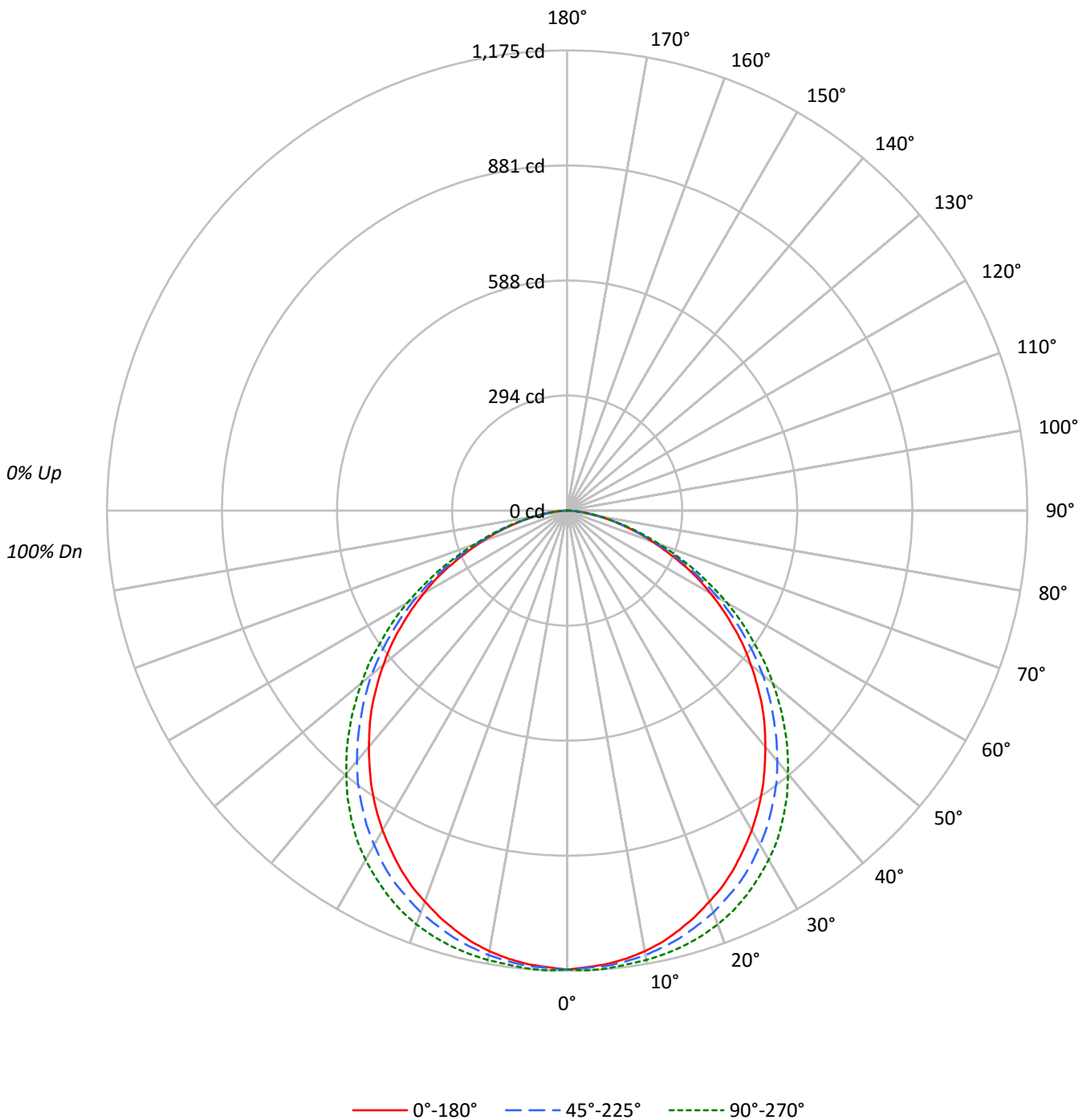
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298193

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P298193

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3154	3154	3154
5°	3139	3153	3170
10°	3122	3149	3184
15°	3087	3142	3206
20°	3042	3127	3220
25°	2994	3106	3217
30°	2930	3062	3199
35°	2855	3006	3156
40°	2766	2933	3082
45°	2678	2834	2990
50°	2563	2727	2871
55°	2434	2572	2711
60°	2273	2396	2537
65°	2074	2168	2293
70°	1816	1893	1970
75°	1549	1582	1651
80°	1243	1268	1294
85°	911	858	809



TEST NUMBER: P298193

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.6
10°-20°	318.4	10.3
20°-30°	481.3	15.6
30°-40°	571.7	18.5
40°-50°	574.0	18.6
50°-60°	490.3	15.9
60°-70°	337.8	11.0
70°-80°	163.8	5.3
80°-90°	35.8	1.2
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°	910.7	29.5
0°-40°	1482.4	48.1
0°-60°	2546.6	82.6
0°-90°	3084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1162	1162	1167	1170	1174	110
15°	1108	1113	1128	1142	1151	312
25°	1008	1016	1046	1074	1084	464
35°	869	882	915	949	961	543
45°	704	714	745	776	786	542
55°	519	527	548	571	578	464
65°	326	326	340	355	360	323
75°	149	146	152	156	159	160
85°	30	30	28	26	26	36
90°	0	0	0	0	0	



TEST NUMBER: P298193

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-22-T1-W2A-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.0	1172.0	1172.0	1172.0	1172.0
2.5°	1167.1	1167.1	1168.7	1173.6	1175.3
5°	1162.2	1162.2	1167.1	1170.4	1173.6
7.5°	1154.0	1155.6	1160.5	1167.1	1168.7
10°	1142.5	1144.2	1152.3	1160.5	1165.4
12.5°	1127.8	1131.1	1140.9	1154.0	1158.9
15°	1108.2	1113.1	1127.8	1142.5	1150.7
17.5°	1086.9	1093.4	1109.8	1131.1	1139.3
20°	1062.3	1070.5	1091.8	1114.7	1124.5
22.5°	1037.8	1044.3	1068.9	1095.1	1106.5
25°	1008.3	1016.5	1046.0	1073.8	1083.6
27.5°	975.6	987.0	1018.1	1047.6	1057.4
30°	942.8	952.7	985.4	1018.1	1029.6
32.5°	906.8	916.6	952.7	985.4	998.5
35°	869.2	882.3	915.0	949.4	960.8
37.5°	828.3	843.0	877.4	906.8	921.6
40°	787.3	800.4	834.8	865.9	877.4
42.5°	746.4	757.9	790.6	823.3	833.2
45°	703.8	713.7	744.8	775.9	785.7
47.5°	658.0	669.5	698.9	725.1	736.6
50°	612.2	623.6	651.5	676.0	685.8
52.5°	568.0	574.5	600.7	623.6	635.1
55°	518.9	527.1	548.3	571.3	577.8
57.5°	471.4	476.3	497.6	517.2	527.1
60°	422.3	425.6	445.2	460.0	471.4
62.5°	376.5	376.5	391.2	407.6	414.1
65°	325.7	325.7	340.5	355.2	360.1
67.5°	276.6	279.9	289.7	301.2	304.5
70°	230.8	230.8	240.6	248.8	250.4
72.5°	189.9	188.2	193.1	199.7	203.0
75°	149.0	145.7	152.2	155.5	158.8
77.5°	112.9	111.3	114.6	117.9	117.9
80°	80.2	78.6	81.8	81.8	83.5
82.5°	52.4	54.0	54.0	52.4	50.7
85°	29.5	29.5	27.8	26.2	26.2
87.5°	9.8	9.8	9.8	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)