

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: P297327

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3240.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

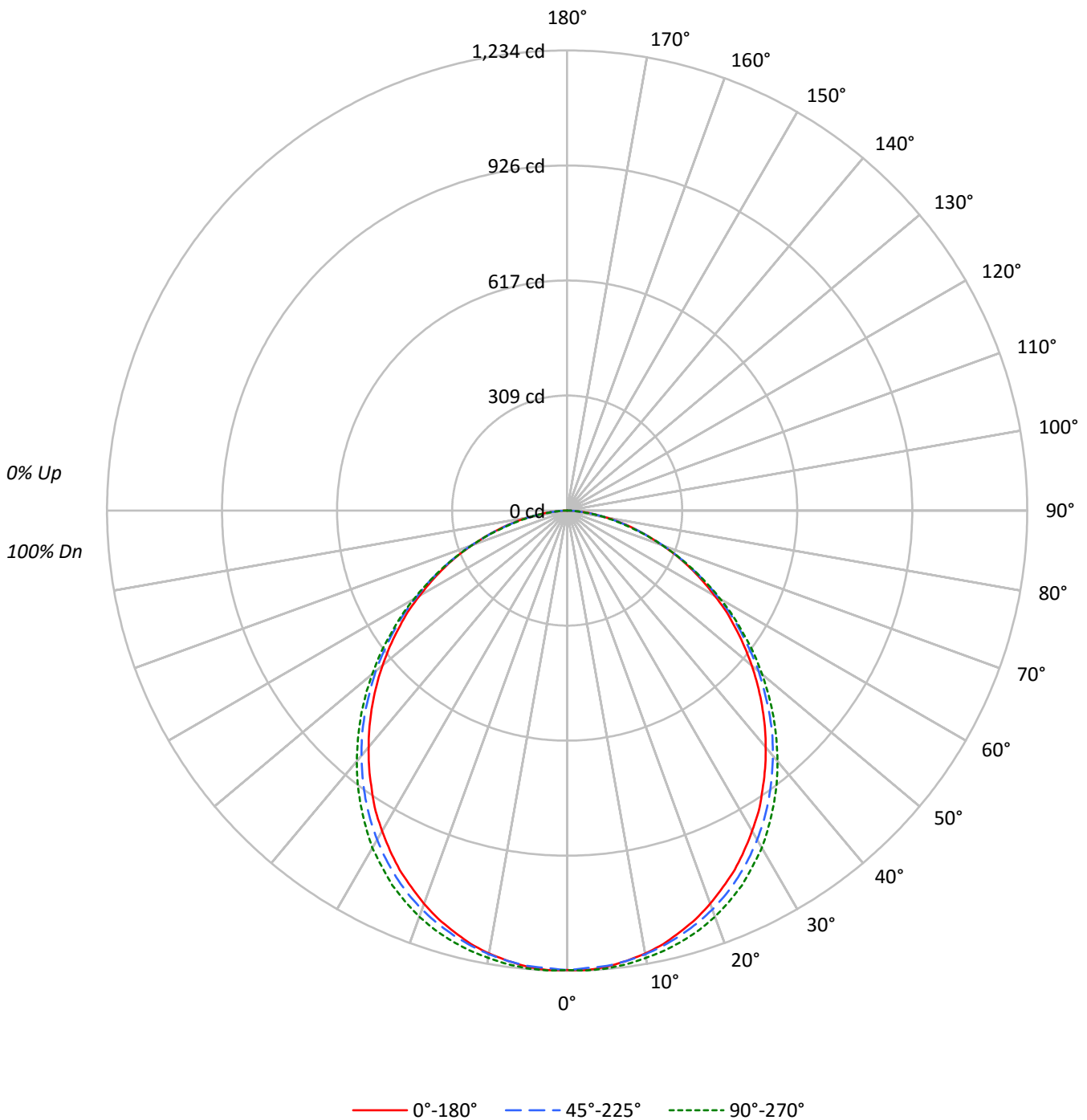
Input Watts (W): 22.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1658	1658	1658
5°	1658	1655	1664
10°	1648	1651	1664
15°	1630	1642	1665
20°	1607	1630	1660
25°	1578	1611	1646
30°	1541	1584	1623
35°	1500	1549	1585
40°	1455	1507	1541
45°	1406	1458	1489
50°	1352	1403	1428
55°	1296	1336	1357
60°	1231	1263	1278
65°	1160	1178	1185
70°	1065	1078	1065
75°	959	953	925
80°	812	804	778
85°	607	590	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.6
10°-20°	333.3	10.3
20°-30°	499.7	15.4
30°-40°	588.5	18.2
40°-50°	588.6	18.2
50°-60°	507.8	15.7
60°-70°	365.4	11.3
70°-80°	193.8	6.0
80°-90°	46.2	1.4
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°	949.6	29.3
0°-40°	1538.1	47.5
0°-60°	2634.5	81.3
0°-90°	3240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1228	1227	1226	1230	1232	116
15°	1170	1173	1179	1191	1195	330
25°	1063	1070	1085	1103	1109	489
35°	914	924	943	959	965	572
45°	739	749	766	779	783	570
55°	552	558	570	580	578	494
65°	364	366	370	372	372	361
75°	184	182	183	179	178	196
85°	39	39	38	35	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1233.3	1231.1	1227.9	1232.2	1234.4
5°	1227.9	1226.8	1225.7	1230.0	1232.2
7.5°	1218.0	1219.1	1218.0	1224.6	1226.8
10°	1206.0	1207.1	1208.2	1215.9	1218.0
12.5°	1190.8	1191.8	1195.1	1204.9	1208.2
15°	1170.0	1173.3	1178.8	1190.8	1195.1
17.5°	1148.2	1152.6	1160.2	1174.4	1178.8
20°	1122.0	1127.5	1138.4	1153.6	1159.1
22.5°	1092.5	1098.0	1113.3	1129.6	1135.1
25°	1063.1	1069.6	1084.9	1103.4	1108.9
27.5°	1028.1	1036.9	1053.2	1071.8	1076.2
30°	992.1	999.8	1019.4	1036.9	1044.5
32.5°	956.1	963.7	982.3	999.8	1005.2
35°	913.5	924.4	943.0	959.4	964.8
37.5°	872.1	881.9	901.5	917.9	923.4
40°	828.4	837.1	857.9	873.1	877.5
42.5°	784.7	793.5	814.2	826.2	830.6
45°	738.9	748.7	766.2	779.3	782.6
47.5°	693.1	700.7	717.1	729.1	733.4
50°	646.1	653.8	670.1	680.0	682.1
52.5°	599.2	604.7	619.9	628.7	631.9
55°	552.3	557.7	569.7	579.6	578.5
57.5°	507.5	509.7	521.7	528.3	528.3
60°	457.3	459.5	469.3	473.7	474.8
62.5°	410.4	413.7	421.3	422.4	422.4
65°	364.5	365.6	370.0	372.2	372.2
67.5°	318.7	317.6	322.0	322.0	320.9
70°	270.7	272.9	274.0	271.8	270.7
72.5°	227.0	225.9	225.9	224.8	224.8
75°	184.5	182.3	183.4	179.0	177.9
77.5°	145.2	141.9	140.8	138.6	136.4
80°	104.8	104.8	103.7	101.5	100.4
82.5°	69.9	69.9	68.8	66.6	64.4
85°	39.3	39.3	38.2	34.9	33.8
87.5°	13.1	13.1	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)