

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: P296994

Luminaire Tested: **D3X-WG-36L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-36L83050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

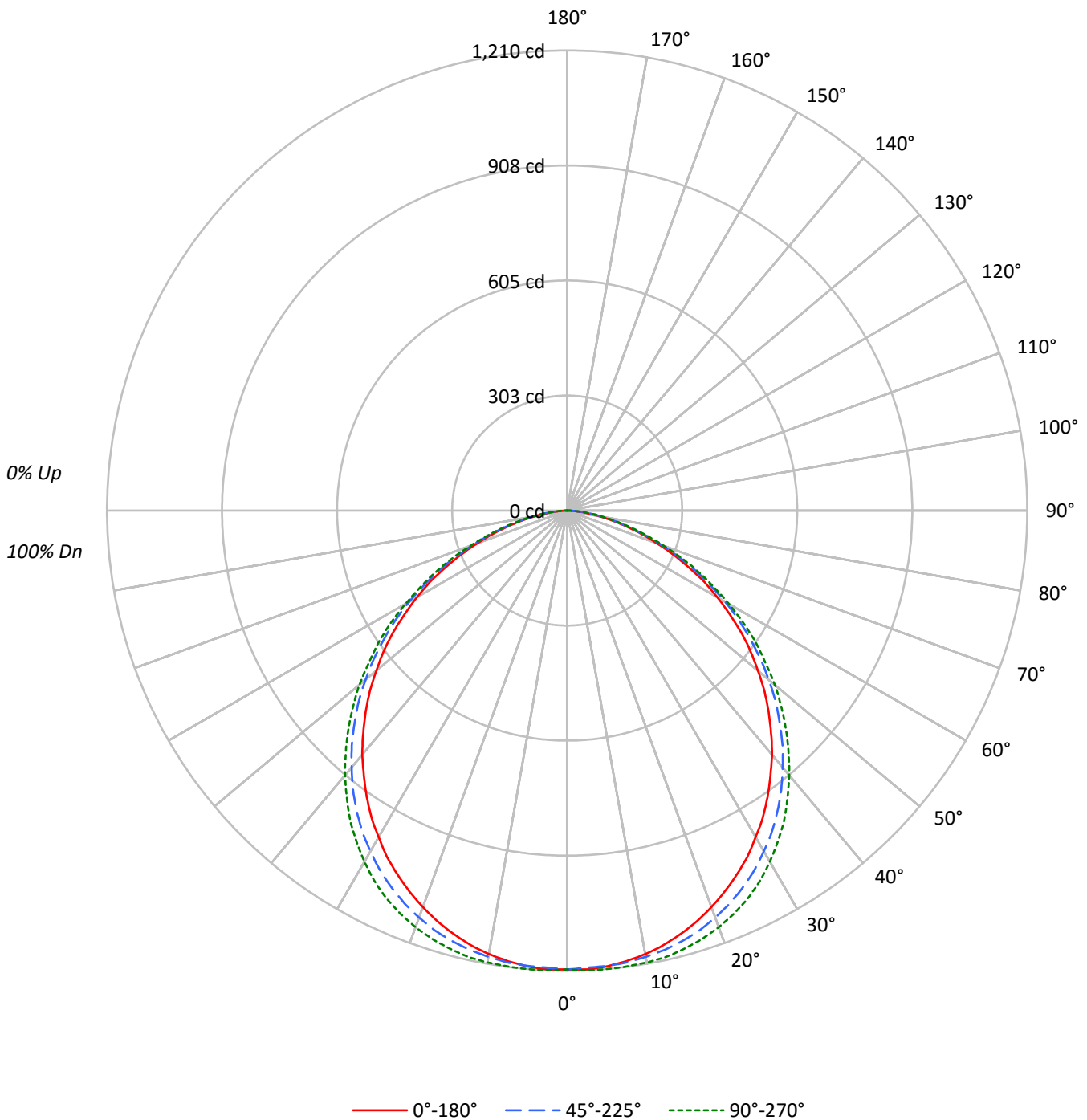
Input Watts (W): 25.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1623	1623	1623
5°	1625	1623	1634
10°	1618	1628	1649
15°	1606	1632	1661
20°	1589	1631	1669
25°	1567	1623	1670
30°	1540	1608	1657
35°	1509	1584	1634
40°	1472	1548	1596
45°	1426	1504	1549
50°	1371	1449	1493
55°	1311	1377	1421
60°	1227	1290	1322
65°	1120	1180	1210
70°	984	1035	1063
75°	833	875	906
80°	662	724	743
85°	451	542	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	3.5
10°-20°	331.0	10.1
20°-30°	503.0	15.4
30°-40°	600.2	18.4
40°-50°	606.2	18.6
50°-60°	522.3	16.0
60°-70°	364.1	11.2
70°-80°	180.4	5.5
80°-90°	42.1	1.3
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°	948.7	29.1
0°-40°	1548.9	47.5
0°-60°	2677.4	82.0
0°-90°	3264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1203	1202	1202	1208	1210	114
15°	1153	1159	1172	1187	1193	325
25°	1056	1070	1093	1115	1125	486
35°	919	934	965	987	995	574
45°	750	766	790	809	814	578
55°	559	571	587	601	606	498
65°	352	359	371	374	380	349
75°	160	162	168	172	174	173
85°	29	35	35	33	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.6	1206.6	1206.6	1206.6	1206.6
2.5°	1207.8	1205.5	1203.1	1207.8	1210.1
5°	1203.1	1202.0	1202.0	1207.8	1210.1
7.5°	1194.9	1194.9	1198.4	1206.6	1209.0
10°	1184.4	1186.8	1191.4	1203.1	1206.6
12.5°	1170.4	1175.1	1183.2	1197.3	1202.0
15°	1152.8	1158.7	1171.6	1186.8	1192.6
17.5°	1133.0	1141.2	1157.5	1175.1	1180.9
20°	1109.6	1120.1	1138.8	1158.7	1165.7
22.5°	1083.9	1096.7	1117.8	1138.8	1147.0
25°	1055.8	1069.8	1093.2	1115.4	1124.8
27.5°	1026.6	1040.6	1066.3	1088.5	1097.9
30°	991.5	1007.9	1034.8	1058.1	1066.3
32.5°	957.6	974.0	1002.0	1023.1	1031.2
35°	919.0	934.2	964.6	986.8	995.0
37.5°	878.1	895.6	924.9	944.7	951.7
40°	838.3	853.5	881.6	901.5	908.5
42.5°	793.9	810.3	838.3	855.9	861.7
45°	749.5	765.8	790.4	809.1	813.8
47.5°	703.9	719.1	743.6	758.8	763.5
50°	654.8	668.8	692.2	707.4	713.2
52.5°	608.0	620.9	640.7	653.6	657.1
55°	558.9	570.6	586.9	601.0	605.7
57.5°	506.3	519.1	534.3	546.0	549.5
60°	456.0	466.5	479.4	489.9	491.1
62.5°	406.9	411.6	423.3	432.6	433.8
65°	351.9	358.9	370.6	374.1	380.0
67.5°	301.7	306.3	315.7	320.4	325.0
70°	250.2	253.7	263.1	268.9	270.1
72.5°	205.8	207.0	214.0	218.6	219.8
75°	160.2	162.5	168.4	171.9	174.2
77.5°	121.6	123.9	128.6	131.0	131.0
80°	85.4	88.9	93.5	94.7	95.9
82.5°	55.0	59.6	63.1	64.3	62.0
85°	29.2	35.1	35.1	32.7	33.9
87.5°	10.5	12.9	14.0	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)