

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: P297001

Luminaire Tested: **D3X-WG-42L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297001
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-42L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4161.0 lumens
Efficiency: N/A
Efficacy: 139.6 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

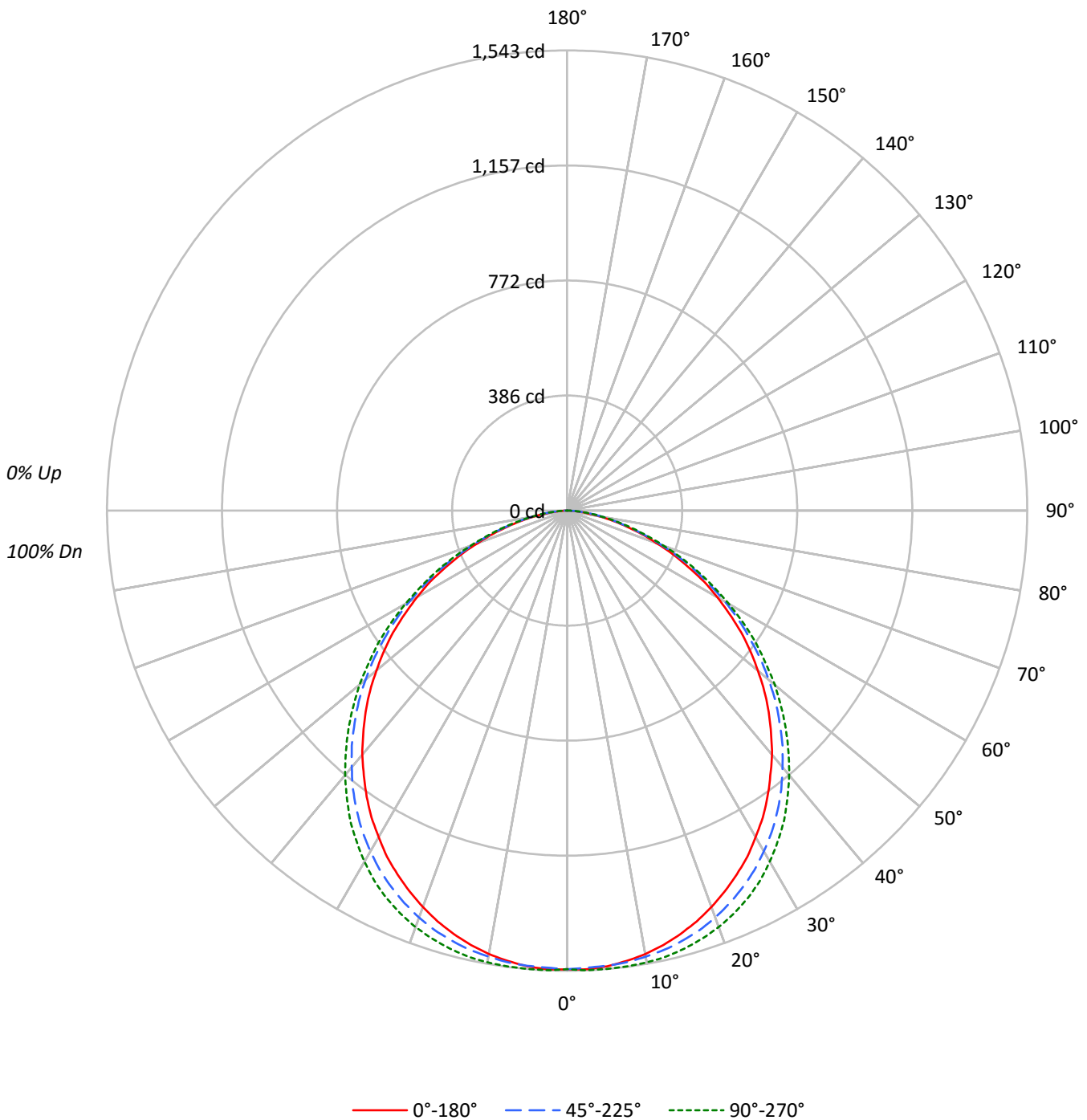
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2070	2070	2070
5°	2072	2070	2084
10°	2063	2075	2102
15°	2047	2080	2118
20°	2025	2079	2128
25°	1998	2069	2129
30°	1964	2049	2112
35°	1924	2020	2083
40°	1877	1974	2034
45°	1818	1917	1974
50°	1747	1847	1903
55°	1671	1755	1811
60°	1564	1644	1685
65°	1429	1504	1542
70°	1255	1319	1354
75°	1062	1116	1155
80°	843	924	947
85°	576	690	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.5
10°-20°	422.0	10.1
20°-30°	641.3	15.4
30°-40°	765.2	18.4
40°-50°	772.8	18.6
50°-60°	665.8	16.0
60°-70°	464.2	11.2
70°-80°	230.0	5.5
80°-90°	53.6	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°	1209.4	29.1
0°-40°	1974.6	47.5
0°-60°	3413.2	82.0
0°-90°	4161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1534	1532	1532	1540	1543	146
15°	1470	1477	1494	1513	1520	414
25°	1346	1364	1394	1422	1434	620
35°	1172	1191	1230	1258	1268	732
45°	955	976	1008	1032	1037	736
55°	712	727	748	766	772	635
65°	449	458	472	477	484	446
75°	204	207	215	219	222	220
85°	37	45	45	42	43	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.2	1538.2	1538.2	1538.2	1538.2
2.5°	1539.7	1536.7	1533.8	1539.7	1542.7
5°	1533.8	1532.3	1532.3	1539.7	1542.7
7.5°	1523.3	1523.3	1527.8	1538.2	1541.2
10°	1509.9	1512.9	1518.9	1533.8	1538.2
12.5°	1492.0	1498.0	1508.4	1526.3	1532.3
15°	1469.7	1477.1	1493.5	1512.9	1520.3
17.5°	1444.3	1454.8	1475.6	1498.0	1505.4
20°	1414.5	1427.9	1451.8	1477.1	1486.1
22.5°	1381.7	1398.1	1425.0	1451.8	1462.2
25°	1346.0	1363.8	1393.7	1422.0	1433.9
27.5°	1308.7	1326.6	1359.4	1387.7	1399.6
30°	1264.0	1284.8	1319.1	1348.9	1359.4
32.5°	1220.7	1241.6	1277.4	1304.2	1314.7
35°	1171.6	1190.9	1229.7	1258.0	1268.4
37.5°	1119.4	1141.8	1179.0	1204.4	1213.3
40°	1068.7	1088.1	1123.9	1149.2	1158.1
42.5°	1012.1	1032.9	1068.7	1091.1	1098.5
45°	955.4	976.3	1007.6	1031.5	1037.4
47.5°	897.3	916.7	948.0	967.4	973.3
50°	834.7	852.6	882.4	901.8	909.2
52.5°	775.1	791.5	816.8	833.2	837.7
55°	712.5	727.4	748.2	766.1	772.1
57.5°	645.4	661.8	681.2	696.1	700.6
60°	581.3	594.7	611.1	624.5	626.0
62.5°	518.7	524.7	539.6	551.5	553.0
65°	448.7	457.6	472.5	477.0	484.4
67.5°	384.6	390.5	402.4	408.4	414.4
70°	319.0	323.4	335.4	342.8	344.3
72.5°	262.3	263.8	272.8	278.7	280.2
75°	204.2	207.2	214.6	219.1	222.1
77.5°	155.0	158.0	164.0	166.9	166.9
80°	108.8	113.3	119.2	120.7	122.2
82.5°	70.1	76.0	80.5	82.0	79.0
85°	37.3	44.7	44.7	41.7	43.2
87.5°	13.4	16.4	17.9	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)