

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: P297059

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297059
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-42L82765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3870.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

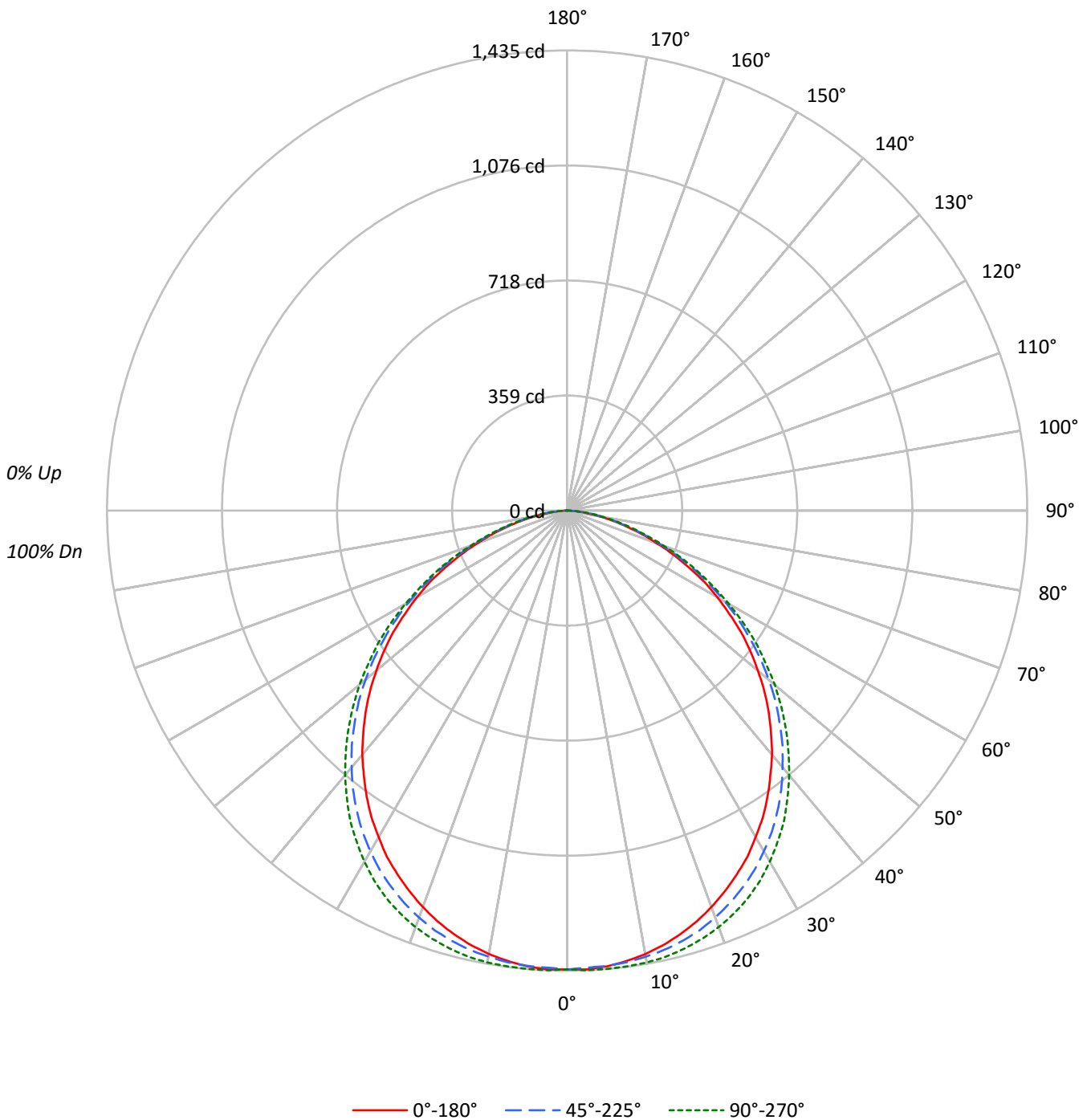
Input Watts (W): 29.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1925	1925	1925
5°	1927	1925	1938
10°	1919	1930	1955
15°	1904	1935	1970
20°	1884	1933	1979
25°	1858	1924	1980
30°	1826	1906	1964
35°	1790	1879	1938
40°	1746	1836	1892
45°	1691	1783	1836
50°	1625	1718	1770
55°	1554	1632	1685
60°	1455	1530	1567
65°	1329	1399	1434
70°	1167	1227	1260
75°	987	1038	1074
80°	784	859	881
85°	536	642	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	3.5
10°-20°	392.5	10.1
20°-30°	596.4	15.4
30°-40°	711.7	18.4
40°-50°	718.8	18.6
50°-60°	619.3	16.0
60°-70°	431.7	11.2
70°-80°	213.9	5.5
80°-90°	49.9	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°	1124.8	29.1
0°-40°	1836.5	47.5
0°-60°	3174.5	82.0
0°-90°	3870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1431	1431	1431	1431	1431	
5°	1426	1425	1425	1432	1435	135
15°	1367	1374	1389	1407	1414	385
25°	1252	1268	1296	1322	1334	577
35°	1090	1108	1144	1170	1180	681
45°	889	908	937	959	965	685
55°	663	676	696	713	718	591
65°	417	426	440	444	450	414
75°	190	193	200	204	207	205
85°	35	42	42	39	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1430.7	1430.7	1430.7	1430.7	1430.7
2.5°	1432.0	1429.3	1426.5	1432.0	1434.8
5°	1426.5	1425.1	1425.1	1432.0	1434.8
7.5°	1416.8	1416.8	1421.0	1430.7	1433.4
10°	1404.3	1407.1	1412.6	1426.5	1430.7
12.5°	1387.7	1393.2	1402.9	1419.6	1425.1
15°	1366.9	1373.8	1389.1	1407.1	1414.0
17.5°	1343.3	1353.0	1372.4	1393.2	1400.2
20°	1315.6	1328.1	1350.3	1373.8	1382.1
22.5°	1285.1	1300.3	1325.3	1350.3	1360.0
25°	1251.8	1268.5	1296.2	1322.5	1333.6
27.5°	1217.2	1233.8	1264.3	1290.6	1301.7
30°	1175.6	1195.0	1226.9	1254.6	1264.3
32.5°	1135.4	1154.8	1188.1	1213.0	1222.7
35°	1089.6	1107.7	1143.7	1170.0	1179.7
37.5°	1041.1	1061.9	1096.6	1120.1	1128.4
40°	994.0	1012.0	1045.3	1068.8	1077.2
42.5°	941.3	960.7	994.0	1014.8	1021.7
45°	888.6	908.0	937.1	959.3	964.9
47.5°	834.5	852.6	881.7	899.7	905.3
50°	776.3	793.0	820.7	838.7	845.6
52.5°	720.9	736.1	759.7	774.9	779.1
55°	662.6	676.5	695.9	712.6	718.1
57.5°	600.3	615.5	633.5	647.4	651.6
60°	540.7	553.1	568.4	580.9	582.2
62.5°	482.4	488.0	501.8	512.9	514.3
65°	417.3	425.6	439.5	443.6	450.5
67.5°	357.7	363.2	374.3	379.8	385.4
70°	296.7	300.8	311.9	318.8	320.2
72.5°	244.0	245.4	253.7	259.2	260.6
75°	189.9	192.7	199.6	203.8	206.6
77.5°	144.2	146.9	152.5	155.3	155.3
80°	101.2	105.4	110.9	112.3	113.7
82.5°	65.2	70.7	74.9	76.2	73.5
85°	34.7	41.6	41.6	38.8	40.2
87.5°	12.5	15.2	16.6	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)