

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: P297209

Luminaire Tested: **D3X-WG-45L92765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297209
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-45L92765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3777.0 lumens
Efficiency: N/A
Efficacy: 118.4 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

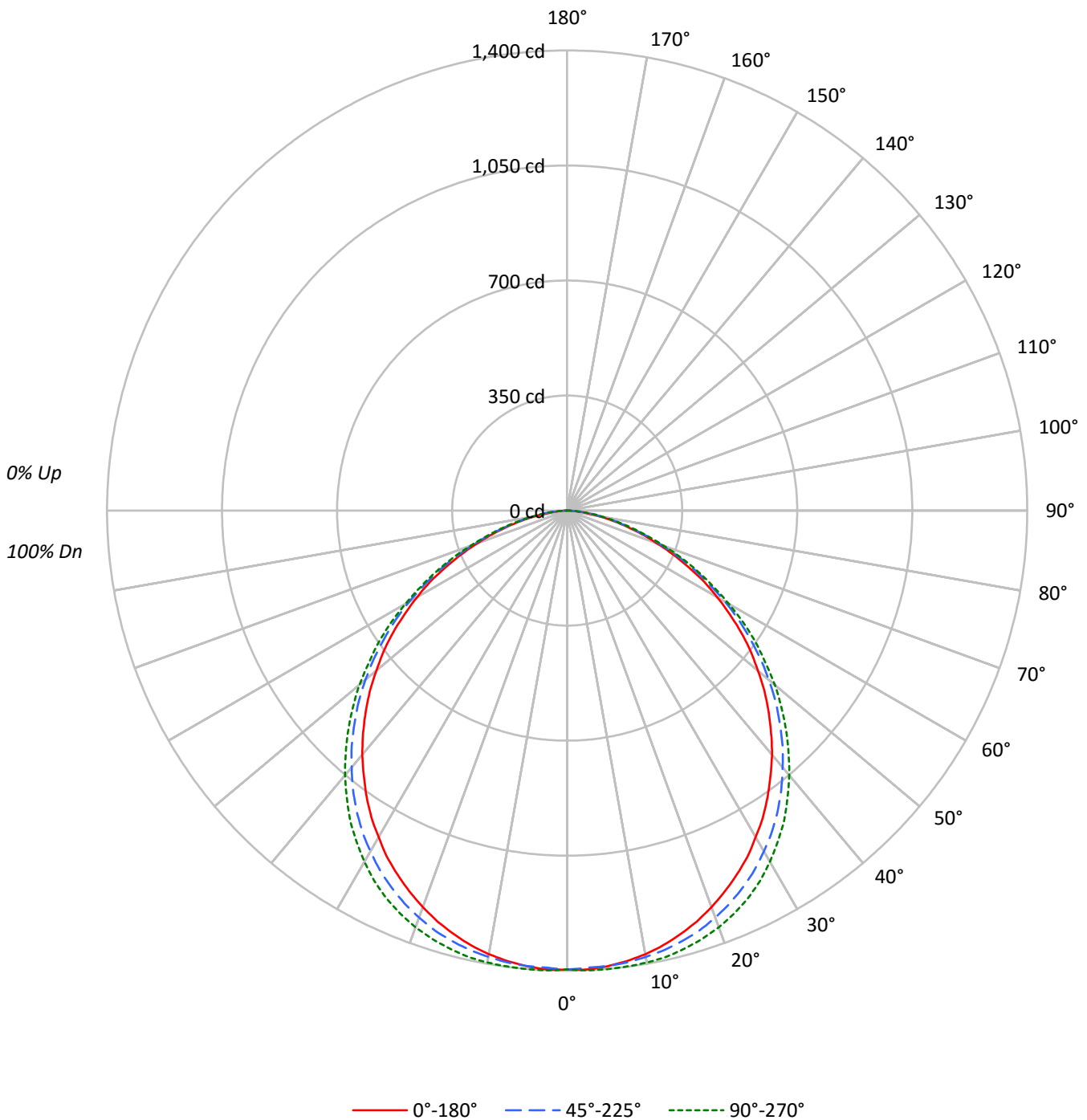
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1879	1879	1879
5°	1880	1879	1891
10°	1873	1884	1908
15°	1858	1888	1922
20°	1838	1887	1931
25°	1814	1878	1932
30°	1782	1860	1917
35°	1747	1833	1891
40°	1704	1792	1847
45°	1650	1740	1792
50°	1586	1677	1728
55°	1517	1593	1644
60°	1420	1493	1529
65°	1296	1365	1400
70°	1139	1197	1229
75°	964	1013	1048
80°	766	838	859
85°	522	627	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.5
10°-20°	383.0	10.1
20°-30°	582.1	15.4
30°-40°	694.6	18.4
40°-50°	701.5	18.6
50°-60°	604.4	16.0
60°-70°	421.3	11.2
70°-80°	208.8	5.5
80°-90°	48.7	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°	1097.8	29.1
0°-40°	1792.3	47.5
0°-60°	3098.2	82.0
0°-90°	3777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1396	1396	1396	1396	1396	
5°	1392	1391	1391	1398	1400	132
15°	1334	1341	1356	1373	1380	376
25°	1222	1238	1265	1291	1302	563
35°	1063	1081	1116	1142	1151	665
45°	867	886	915	936	942	669
55°	647	660	679	695	701	576
65°	407	415	429	433	440	404
75°	185	188	195	199	202	200
85°	34	41	41	38	39	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.3	1396.3	1396.3	1396.3	1396.3
2.5°	1397.6	1394.9	1392.2	1397.6	1400.3
5°	1392.2	1390.9	1390.9	1397.6	1400.3
7.5°	1382.7	1382.7	1386.8	1396.3	1399.0
10°	1370.6	1373.3	1378.7	1392.2	1396.3
12.5°	1354.3	1359.7	1369.2	1385.5	1390.9
15°	1334.0	1340.8	1355.7	1373.3	1380.0
17.5°	1311.0	1320.5	1339.5	1359.7	1366.5
20°	1284.0	1296.2	1317.8	1340.8	1348.9
22.5°	1254.2	1269.1	1293.5	1317.8	1327.3
25°	1221.7	1238.0	1265.0	1290.7	1301.6
27.5°	1187.9	1204.2	1233.9	1259.6	1270.4
30°	1147.3	1166.3	1197.4	1224.4	1233.9
32.5°	1108.1	1127.0	1159.5	1183.9	1193.3
35°	1063.4	1081.0	1116.2	1141.9	1151.4
37.5°	1016.1	1036.4	1070.2	1093.2	1101.3
40°	970.1	987.7	1020.1	1043.1	1051.3
42.5°	918.7	937.6	970.1	990.4	997.1
45°	867.3	886.2	914.6	936.3	941.7
47.5°	814.5	832.1	860.5	878.1	883.5
50°	757.7	773.9	801.0	818.6	825.3
52.5°	703.6	718.4	741.4	756.3	760.4
55°	646.7	660.3	679.2	695.4	700.8
57.5°	585.8	600.7	618.3	631.8	635.9
60°	527.7	539.8	554.7	566.9	568.3
62.5°	470.8	476.2	489.8	500.6	502.0
65°	407.2	415.4	428.9	433.0	439.7
67.5°	349.1	354.5	365.3	370.7	376.1
70°	289.5	293.6	304.4	311.2	312.5
72.5°	238.1	239.5	247.6	253.0	254.4
75°	185.4	188.1	194.8	198.9	201.6
77.5°	140.7	143.4	148.8	151.5	151.5
80°	98.8	102.8	108.2	109.6	110.9
82.5°	63.6	69.0	73.1	74.4	71.7
85°	33.8	40.6	40.6	37.9	39.2
87.5°	12.2	14.9	16.2	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)