

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: P297093

Luminaire Tested: **D3X-WG-60L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297093
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-60L82765-LD5-UNV-24-T1-W2A-2700K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5198.0 lumens
Efficiency: N/A
Efficacy: 120.3 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

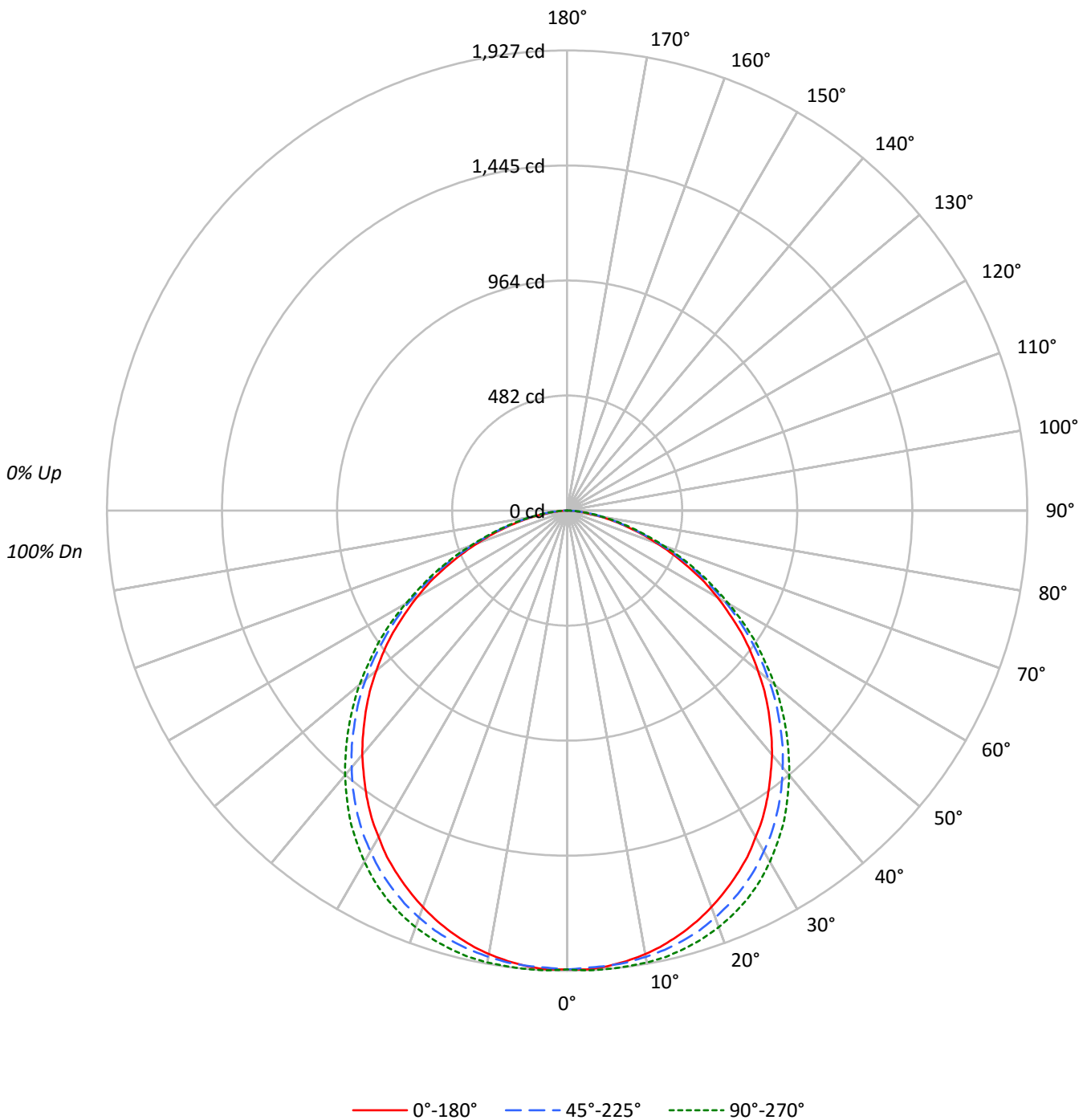
Input Watts (W): 43.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2585	2585	2585
5°	2588	2585	2603
10°	2577	2592	2625
15°	2557	2599	2645
20°	2530	2597	2658
25°	2496	2585	2659
30°	2453	2560	2638
35°	2404	2523	2603
40°	2345	2466	2541
45°	2271	2395	2466
50°	2183	2307	2377
55°	2088	2193	2263
60°	1954	2054	2104
65°	1784	1879	1927
70°	1568	1648	1692
75°	1326	1394	1442
80°	1053	1155	1183
85°	719	863	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	3.5
10°-20°	527.1	10.1
20°-30°	801.1	15.4
30°-40°	955.9	18.4
40°-50°	965.4	18.6
50°-60°	831.8	16.0
60°-70°	579.8	11.2
70°-80°	287.3	5.5
80°-90°	67.0	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°	1510.8	29.1
0°-40°	2466.7	47.5
0°-60°	4263.8	82.0
0°-90°	5198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5198.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1916	1914	1914	1924	1927	182
15°	1836	1845	1866	1890	1899	518
25°	1681	1704	1741	1776	1791	775
35°	1464	1488	1536	1572	1585	915
45°	1194	1220	1259	1288	1296	920
55°	890	909	935	957	964	793
65°	560	572	590	596	605	557
75°	255	259	268	274	277	275
85°	47	56	56	52	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1921.6	1921.6	1921.6	1921.6	1921.6
2.5°	1923.5	1919.7	1916.0	1923.5	1927.2
5°	1916.0	1914.1	1914.1	1923.5	1927.2
7.5°	1903.0	1903.0	1908.6	1921.6	1925.3
10°	1886.2	1889.9	1897.4	1916.0	1921.6
12.5°	1863.9	1871.3	1884.4	1906.7	1914.1
15°	1835.9	1845.2	1865.7	1889.9	1899.2
17.5°	1804.3	1817.3	1843.4	1871.3	1880.6
20°	1767.0	1783.8	1813.6	1845.2	1856.4
22.5°	1726.1	1746.6	1780.1	1813.6	1826.6
25°	1681.4	1703.7	1741.0	1776.4	1791.3
27.5°	1634.8	1657.2	1698.1	1733.5	1748.4
30°	1579.0	1605.0	1647.9	1685.1	1698.1
32.5°	1525.0	1551.1	1595.7	1629.3	1642.3
35°	1463.5	1487.7	1536.2	1571.5	1584.6
37.5°	1398.4	1426.3	1472.8	1504.5	1515.7
40°	1335.1	1359.3	1404.0	1435.6	1446.8
42.5°	1264.3	1290.4	1335.1	1363.0	1372.3
45°	1193.5	1219.6	1258.7	1288.5	1296.0
47.5°	1120.9	1145.1	1184.2	1208.4	1215.9
50°	1042.7	1065.1	1102.3	1126.5	1135.8
52.5°	968.2	988.7	1020.4	1040.9	1046.4
55°	890.0	908.7	934.7	957.1	964.5
57.5°	806.2	826.7	850.9	869.6	875.1
60°	726.2	742.9	763.4	780.2	782.0
62.5°	648.0	655.4	674.0	688.9	690.8
65°	560.5	571.6	590.3	595.8	605.2
67.5°	480.4	487.8	502.7	510.2	517.6
70°	398.5	404.1	419.0	428.3	430.1
72.5°	327.7	329.6	340.7	348.2	350.1
75°	255.1	258.8	268.1	273.7	277.4
77.5°	193.6	197.4	204.8	208.5	208.5
80°	135.9	141.5	149.0	150.8	152.7
82.5°	87.5	95.0	100.5	102.4	98.7
85°	46.6	55.9	55.9	52.1	54.0
87.5°	16.8	20.5	22.3	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)