

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: P296726

Luminaire Tested: **D3X-WD-45L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-45L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4482.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

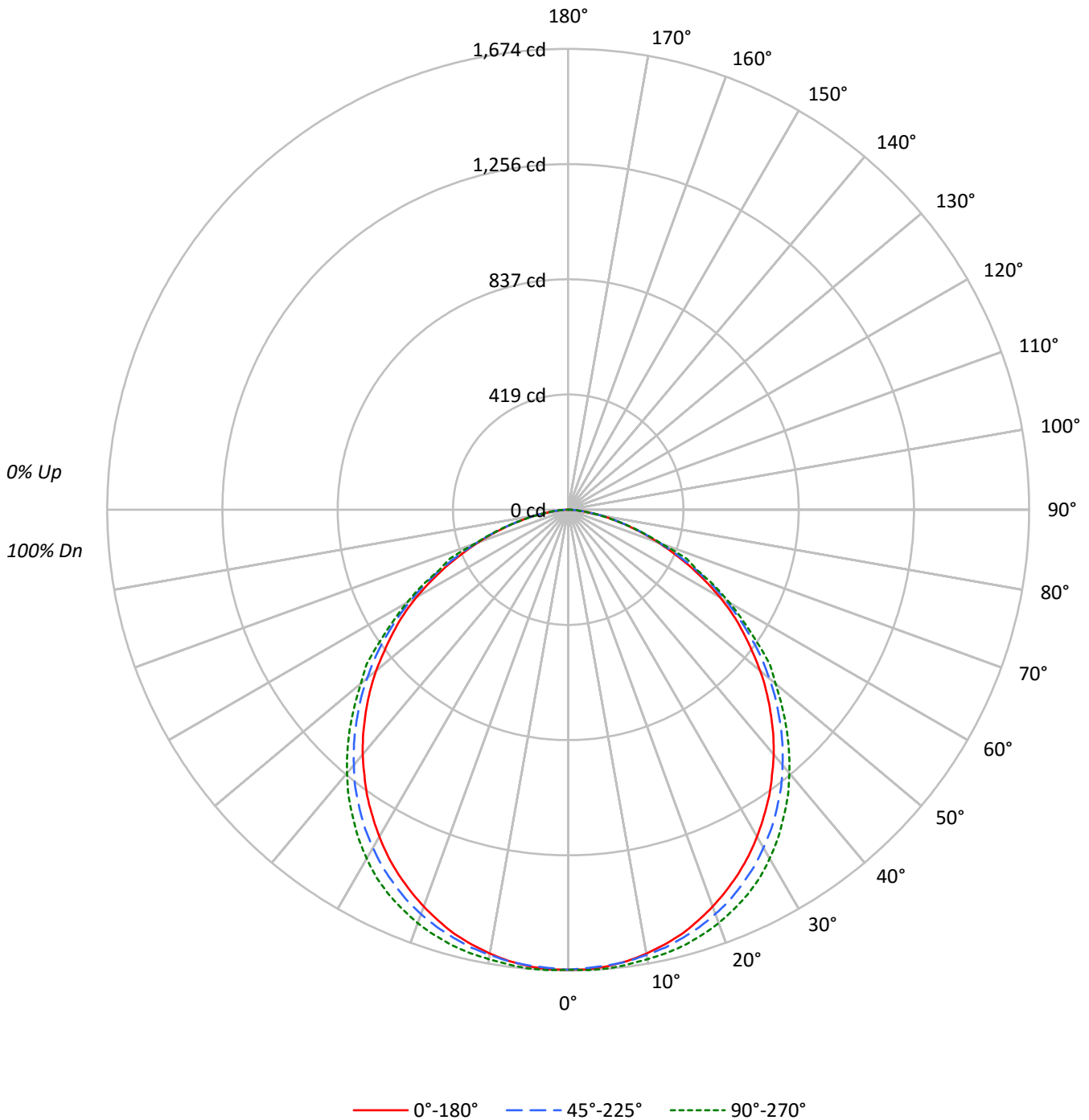
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
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	48	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	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2248	2248	2248
5°	2248	2244	2259
10°	2237	2243	2265
15°	2222	2242	2280
20°	2197	2238	2289
25°	2168	2225	2290
30°	2131	2204	2274
35°	2089	2171	2240
40°	2039	2127	2195
45°	1977	2069	2133
50°	1905	1996	2057
55°	1818	1901	1958
60°	1714	1778	1822
65°	1557	1608	1638
70°	1367	1398	1417
75°	1154	1170	1179
80°	922	934	910
85°	621	645	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	3.5
10°-20°	455.4	10.2
20°-30°	690.9	15.4
30°-40°	824.9	18.4
40°-50°	835.1	18.6
50°-60°	721.8	16.1
60°-70°	500.3	11.2
70°-80°	242.1	5.4
80°-90°	53.2	1.2
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°	1304.6	29.1
0°-40°	2129.5	47.5
0°-60°	3686.4	82.2
0°-90°	4482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1671	1671	1671	1671	1671	
5°	1664	1663	1661	1669	1672	158
15°	1595	1598	1610	1629	1637	450
25°	1460	1470	1499	1529	1542	672
35°	1272	1283	1322	1356	1364	795
45°	1039	1053	1087	1114	1121	801
55°	775	783	810	844	835	693
65°	489	494	505	513	515	484
75°	222	224	225	224	227	238
85°	40	43	42	40	40	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.9	1670.9	1670.9	1670.9	1670.9
2.5°	1670.9	1669.2	1666.0	1670.9	1674.1
5°	1664.4	1662.8	1661.2	1669.2	1672.5
7.5°	1653.2	1653.2	1654.8	1662.8	1666.0
10°	1637.1	1638.7	1641.9	1654.8	1658.0
12.5°	1617.8	1621.0	1629.0	1643.5	1650.0
15°	1595.3	1598.5	1609.7	1629.0	1637.1
17.5°	1566.3	1572.8	1588.8	1611.4	1619.4
20°	1534.2	1542.2	1563.1	1588.8	1598.5
22.5°	1498.8	1506.8	1534.2	1561.5	1571.2
25°	1460.2	1469.8	1498.8	1529.3	1542.2
27.5°	1418.4	1429.6	1461.8	1494.0	1506.8
30°	1371.7	1384.6	1418.4	1452.2	1463.4
32.5°	1321.9	1334.8	1373.4	1405.5	1416.8
35°	1272.0	1283.3	1321.9	1355.7	1363.7
37.5°	1215.8	1228.6	1270.4	1299.4	1310.6
40°	1161.1	1173.9	1210.9	1239.9	1249.5
42.5°	1101.6	1114.4	1151.4	1178.8	1186.8
45°	1038.9	1053.3	1087.1	1114.4	1120.9
47.5°	976.1	987.4	1022.8	1046.9	1051.7
50°	910.2	921.5	953.6	977.7	982.6
52.5°	841.1	858.7	884.5	902.2	923.1
55°	775.1	783.2	810.5	844.3	834.6
57.5°	709.2	714.0	736.5	751.0	754.2
60°	636.8	643.3	660.9	669.0	677.0
62.5°	561.2	566.1	587.0	595.0	598.2
65°	488.9	493.7	505.0	513.0	514.6
67.5°	414.9	419.7	429.4	435.8	464.8
70°	347.4	350.6	355.4	368.3	360.2
72.5°	283.0	284.6	289.5	289.5	291.1
75°	221.9	223.5	225.1	223.5	226.7
77.5°	165.6	168.9	170.5	168.9	167.2
80°	119.0	122.2	120.6	117.4	117.4
82.5°	77.2	78.8	77.2	75.6	75.6
85°	40.2	43.4	41.8	40.2	40.2
87.5°	14.5	16.1	17.7	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)