

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: P297756

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3999.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

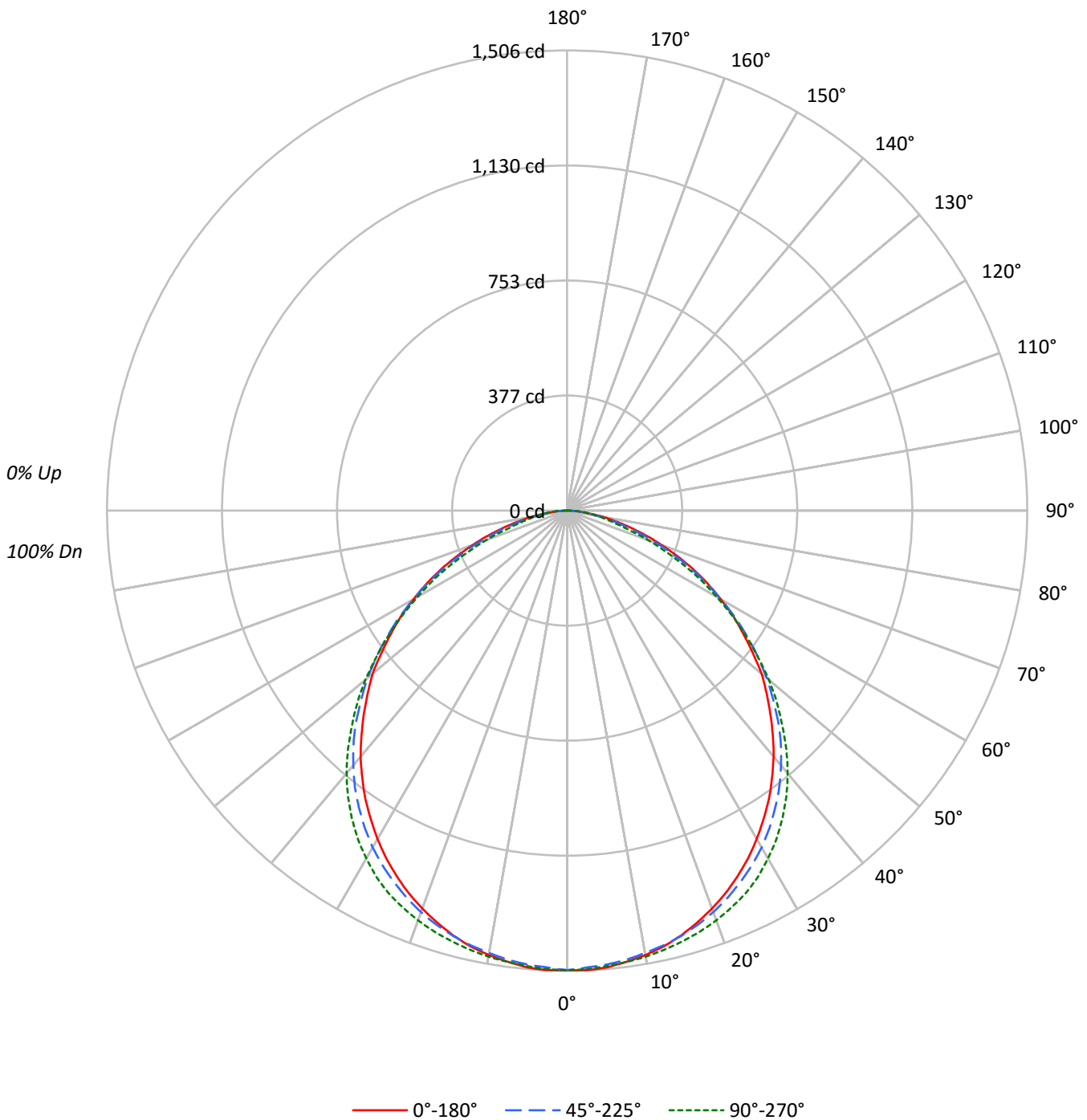
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4047	4047	4047
5°	4053	4029	4043
10°	4036	4017	4051
15°	4011	4016	4065
20°	3969	4005	4087
25°	3919	3982	4104
30°	3856	3956	4084
35°	3783	3901	4036
40°	3694	3826	3945
45°	3580	3716	3791
50°	3481	3571	3609
55°	3306	3373	3356
60°	3128	3128	3041
65°	2904	2835	2676
70°	2575	2463	2223
75°	2231	2026	1710
80°	1829	1579	1551
85°	1213	1436	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	3.6
10°-20°	408.2	10.2
20°-30°	620.4	15.5
30°-40°	742.7	18.6
40°-50°	749.2	18.7
50°-60°	638.1	16.0
60°-70°	436.3	10.9
70°-80°	208.9	5.2
80°-90°	52.9	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°	1170.7	29.3
0°-40°	1913.5	47.8
0°-60°	3300.8	82.5
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1500	1499	1491	1499	1497	142
15°	1440	1436	1441	1458	1459	406
25°	1320	1322	1341	1372	1382	608
35°	1152	1155	1187	1221	1229	719
45°	941	948	976	996	996	726
55°	705	708	719	721	715	631
65°	456	447	445	429	420	450
75°	215	211	195	170	164	229
85°	39	43	46	48	50	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1505.7	1503.9	1496.8	1503.9	1502.2
5°	1500.4	1498.6	1491.4	1498.6	1496.8
7.5°	1489.6	1487.9	1482.5	1489.6	1489.6
10°	1477.1	1473.5	1470.0	1480.7	1482.5
12.5°	1461.0	1457.5	1457.5	1470.0	1471.8
15°	1439.6	1436.0	1441.4	1457.5	1459.2
17.5°	1414.5	1412.7	1421.7	1441.4	1444.9
20°	1385.9	1384.1	1398.4	1421.7	1427.1
22.5°	1355.5	1355.5	1371.6	1398.4	1405.6
25°	1319.8	1321.5	1341.2	1371.6	1382.3
27.5°	1282.2	1285.8	1309.0	1343.0	1351.9
30°	1241.1	1246.4	1273.3	1305.4	1314.4
32.5°	1196.4	1201.7	1232.1	1266.1	1275.0
35°	1151.7	1155.2	1187.4	1221.4	1228.6
37.5°	1101.6	1106.9	1140.9	1171.3	1178.5
40°	1051.5	1056.9	1089.1	1117.7	1123.0
42.5°	996.1	1003.2	1035.4	1058.7	1062.2
45°	940.6	947.8	976.4	996.1	996.1
47.5°	885.2	888.8	913.8	933.5	931.7
50°	831.6	829.8	853.0	862.0	862.0
52.5°	765.4	770.8	786.8	792.2	786.8
55°	704.6	708.2	718.9	720.7	715.3
57.5°	645.6	643.8	652.7	647.4	640.2
60°	581.2	581.2	581.2	575.8	565.1
62.5°	518.6	515.0	513.2	500.7	495.4
65°	456.0	447.1	445.3	429.2	420.2
67.5°	389.8	386.3	377.3	361.2	345.1
70°	327.3	323.7	313.0	293.3	282.5
72.5°	270.0	266.5	252.1	228.9	214.6
75°	214.6	211.0	194.9	169.9	164.5
77.5°	162.7	160.9	144.9	132.3	130.5
80°	118.0	116.2	101.9	101.9	100.1
82.5°	75.1	75.1	71.5	73.3	75.1
85°	39.3	42.9	46.5	48.3	50.1
87.5°	12.5	19.7	23.2	25.0	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)