

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: P297686

Luminaire Tested: **D3X-WD-40L92765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L92765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3616.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

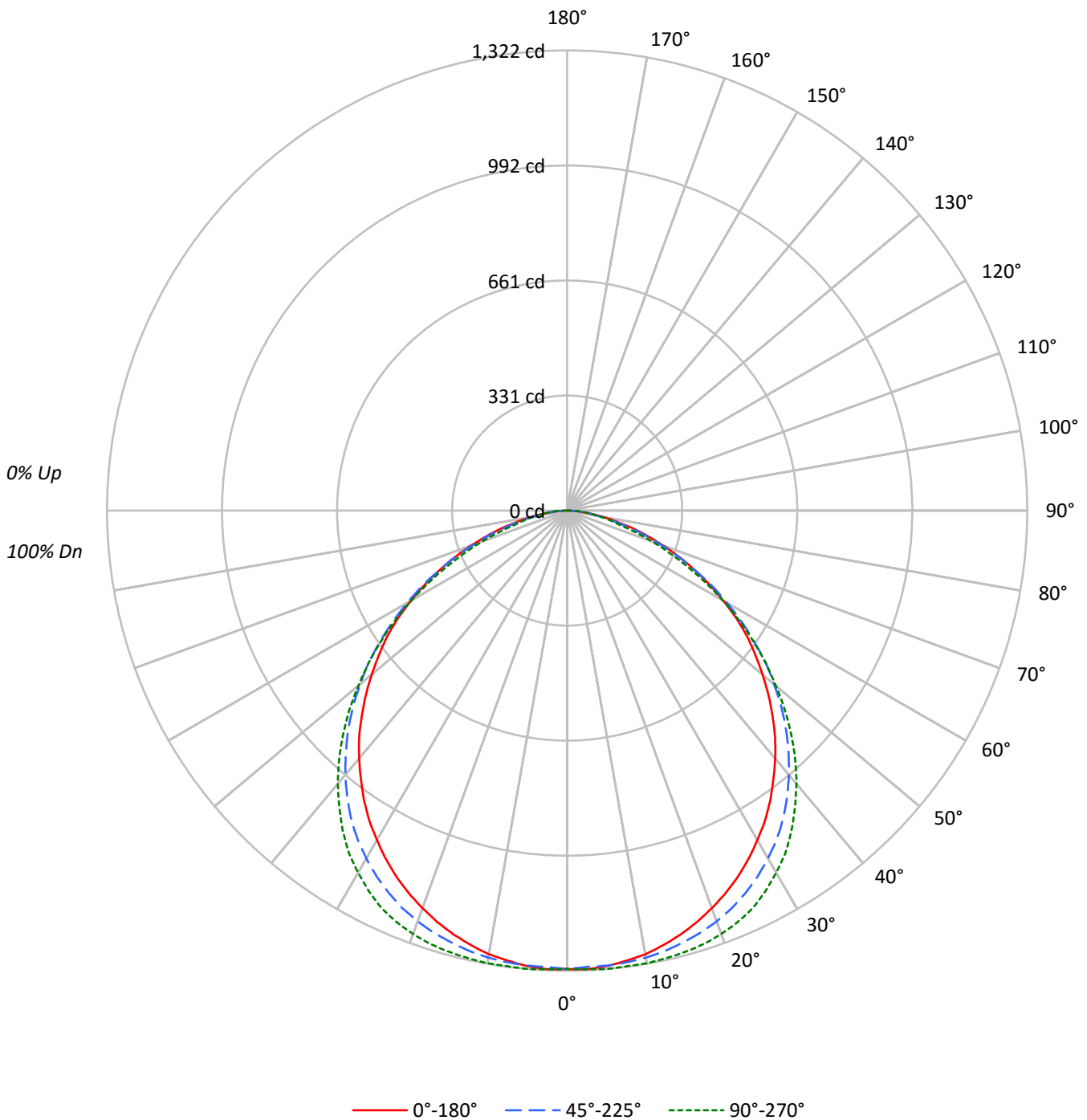
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3544	3544	3544
5°	3549	3545	3571
10°	3537	3564	3608
15°	3512	3579	3656
20°	3481	3596	3707
25°	3446	3599	3743
30°	3396	3586	3732
35°	3341	3553	3690
40°	3266	3482	3601
45°	3176	3385	3465
50°	3068	3250	3277
55°	2961	3074	3059
60°	2788	2849	2780
65°	2569	2579	2436
70°	2299	2248	2045
75°	1997	1863	1577
80°	1601	1450	1450
85°	1145	1346	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.5
10°-20°	363.6	10.1
20°-30°	558.3	15.4
30°-40°	672.4	18.6
40°-50°	679.5	18.8
50°-60°	579.5	16.0
60°-70°	396.7	11.0
70°-80°	191.4	5.3
80°-90°	49.3	1.4
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°	1047.1	29.0
0°-40°	1719.5	47.6
0°-60°	2978.5	82.4
0°-90°	3616.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1314	1314	1312	1320	1322	125
15°	1261	1270	1285	1307	1312	356
25°	1160	1178	1212	1248	1261	534
35°	1017	1040	1082	1115	1123	635
45°	834	857	889	910	910	644
55°	631	642	655	659	652	562
65°	404	408	405	391	382	400
75°	192	192	179	158	152	204
85°	37	40	44	45	45	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.1	1317.1	1317.1	1317.1	1317.1
2.5°	1318.7	1317.1	1312.3	1318.7	1318.7
5°	1313.9	1313.9	1312.3	1320.3	1322.0
7.5°	1304.2	1307.4	1309.0	1318.7	1320.3
10°	1294.5	1297.7	1304.2	1317.1	1320.3
12.5°	1278.4	1284.8	1296.1	1313.9	1317.1
15°	1260.6	1270.3	1284.8	1307.4	1312.3
17.5°	1239.6	1252.6	1271.9	1297.7	1305.8
20°	1215.4	1230.0	1255.8	1284.8	1294.5
22.5°	1189.6	1205.7	1236.4	1270.3	1280.0
25°	1160.5	1178.3	1212.2	1247.7	1260.6
27.5°	1128.3	1147.6	1184.8	1221.9	1233.2
30°	1092.8	1113.7	1154.1	1191.2	1200.9
32.5°	1057.2	1078.2	1120.2	1155.7	1167.0
35°	1016.9	1039.5	1081.5	1115.4	1123.4
37.5°	973.3	995.9	1037.9	1071.8	1075.0
40°	929.7	952.3	991.1	1021.7	1025.0
42.5°	884.5	905.5	941.0	966.9	970.1
45°	834.5	857.1	889.4	910.4	910.4
47.5°	784.5	807.1	834.5	849.0	849.0
50°	732.8	753.8	776.4	784.5	782.8
52.5°	681.2	700.5	719.9	721.5	718.3
55°	631.1	642.4	655.3	658.6	652.1
57.5°	576.2	585.9	594.0	589.2	584.3
60°	518.1	527.8	529.4	521.4	516.5
62.5°	461.6	469.7	469.7	456.8	448.7
65°	403.5	408.4	405.1	390.6	382.5
67.5°	348.6	351.9	345.4	330.9	318.0
70°	292.2	293.8	285.7	267.9	259.9
72.5°	240.5	242.1	232.4	211.4	201.8
75°	192.1	192.1	179.2	158.2	151.7
77.5°	143.7	148.5	134.0	122.7	122.7
80°	103.3	108.1	93.6	95.2	93.6
82.5°	67.8	72.6	67.8	67.8	67.8
85°	37.1	40.4	43.6	45.2	45.2
87.5°	11.3	19.4	21.0	22.6	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)