

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: P297135

Luminaire Tested: **D3X-WG-36L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297135
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-36L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2936.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

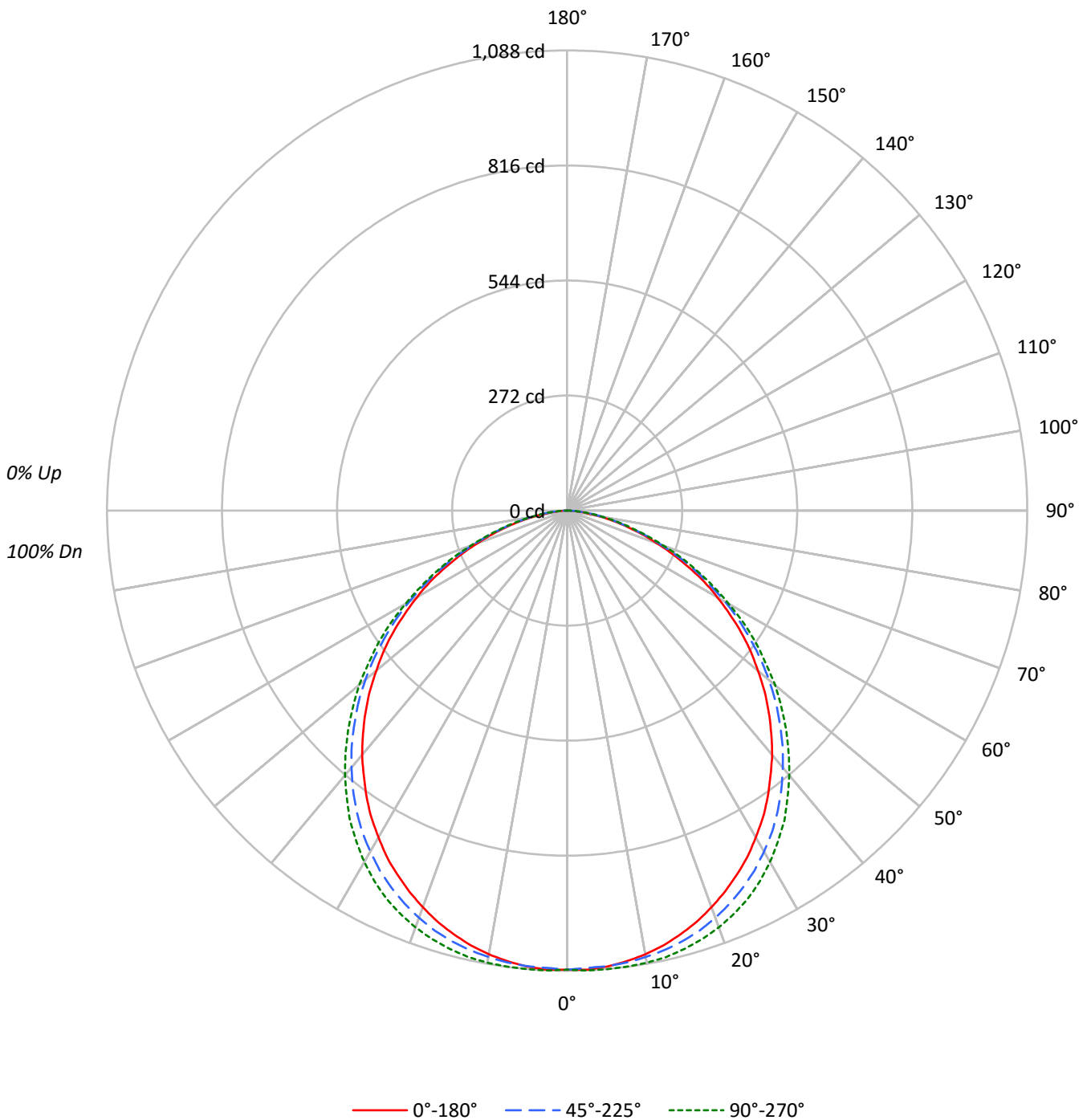
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34		45	38	33		44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1460	1460	1460
5°	1462	1460	1470
10°	1456	1464	1483
15°	1444	1468	1494
20°	1429	1467	1501
25°	1410	1460	1502
30°	1386	1446	1490
35°	1358	1425	1470
40°	1325	1393	1435
45°	1283	1353	1393
50°	1233	1303	1343
55°	1179	1239	1278
60°	1104	1160	1189
65°	1008	1061	1088
70°	886	931	956
75°	749	787	815
80°	595	652	668
85°	406	488	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	3.5
10°-20°	297.7	10.1
20°-30°	452.5	15.4
30°-40°	539.9	18.4
40°-50°	545.3	18.6
50°-60°	469.8	16.0
60°-70°	327.5	11.2
70°-80°	162.3	5.5
80°-90°	37.8	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°	853.3	29.1
0°-40°	1393.3	47.5
0°-60°	2408.4	82.0
0°-90°	2936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1082	1081	1081	1086	1088	103
15°	1037	1042	1054	1068	1073	292
25°	950	962	983	1003	1012	437
35°	827	840	868	888	895	517
45°	674	689	711	728	732	520
55°	503	513	528	541	545	448
65°	317	323	333	337	342	314
75°	144	146	151	155	157	155
85°	26	32	32	29	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1086.4	1084.3	1082.2	1086.4	1088.5
5°	1082.2	1081.2	1081.2	1086.4	1088.5
7.5°	1074.9	1074.9	1078.0	1085.4	1087.5
10°	1065.4	1067.5	1071.7	1082.2	1085.4
12.5°	1052.8	1057.0	1064.3	1077.0	1081.2
15°	1037.0	1042.3	1053.8	1067.5	1072.8
17.5°	1019.1	1026.5	1041.2	1057.0	1062.2
20°	998.1	1007.5	1024.4	1042.3	1048.6
22.5°	974.9	986.5	1005.4	1024.4	1031.7
25°	949.7	962.3	983.4	1003.3	1011.8
27.5°	923.4	936.0	959.2	979.2	987.6
30°	891.9	906.6	930.8	951.8	959.2
32.5°	861.4	876.1	901.3	920.3	927.6
35°	826.7	840.3	867.7	887.7	895.0
37.5°	789.8	805.6	831.9	849.8	856.1
40°	754.1	767.8	793.0	810.9	817.2
42.5°	714.1	728.8	754.1	769.9	775.1
45°	674.2	688.9	711.0	727.8	732.0
47.5°	633.1	646.8	668.9	682.6	686.8
50°	589.0	601.6	622.6	636.3	641.6
52.5°	546.9	558.5	576.3	587.9	591.1
55°	502.7	513.2	528.0	540.6	544.8
57.5°	455.4	467.0	480.6	491.2	494.3
60°	410.2	419.6	431.2	440.7	441.7
62.5°	366.0	370.2	380.7	389.1	390.2
65°	316.6	322.9	333.4	336.6	341.8
67.5°	271.3	275.6	284.0	288.2	292.4
70°	225.1	228.2	236.6	241.9	242.9
72.5°	185.1	186.2	192.5	196.7	197.7
75°	144.1	146.2	151.4	154.6	156.7
77.5°	109.4	111.5	115.7	117.8	117.8
80°	76.8	79.9	84.1	85.2	86.2
82.5°	49.4	53.6	56.8	57.8	55.7
85°	26.3	31.6	31.6	29.4	30.5
87.5°	9.5	11.6	12.6	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)