

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: P298074

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3149.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

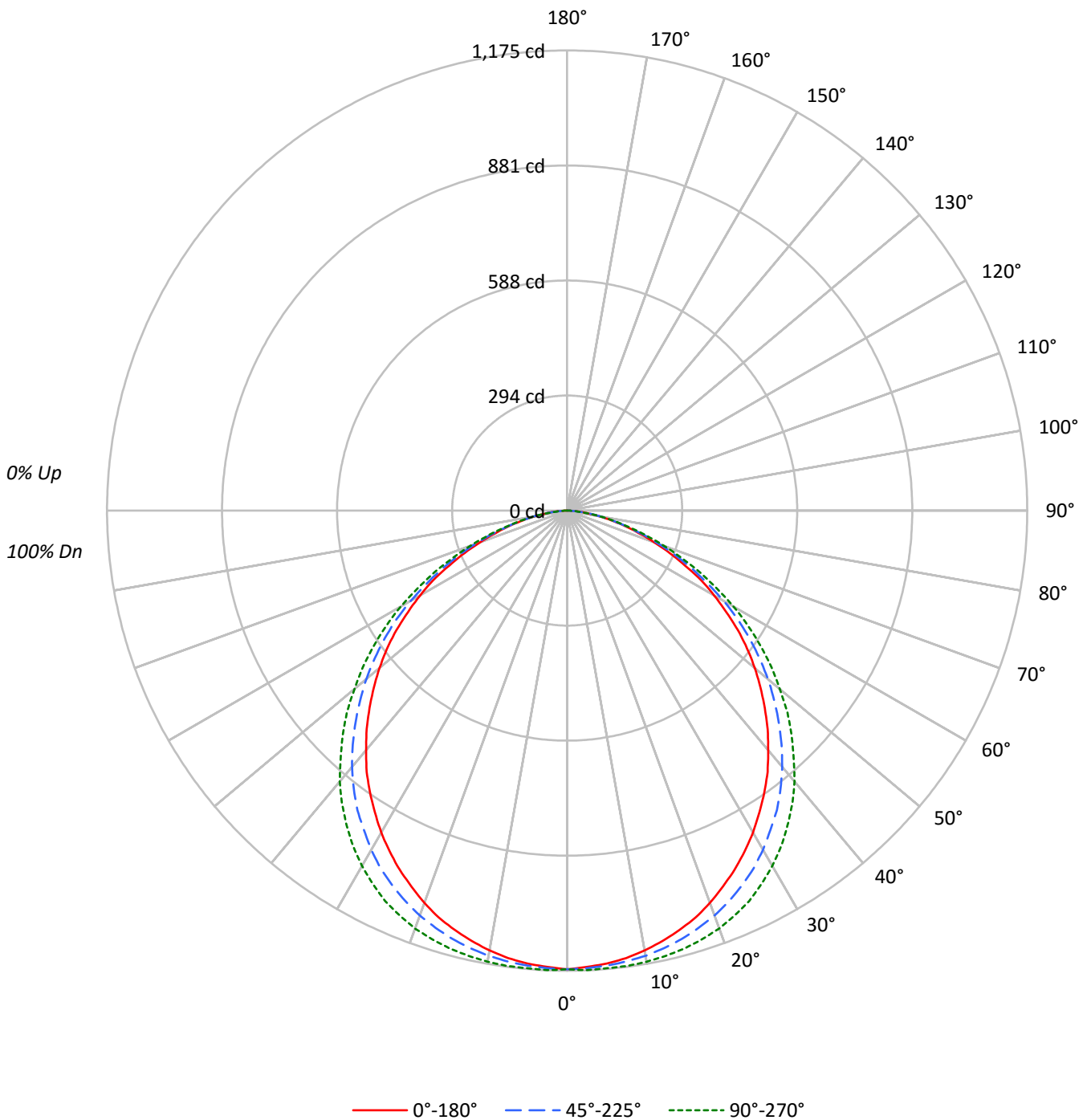
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	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		48	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	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3152	3152	3152
5°	3136	3150	3168
10°	3117	3154	3196
15°	3088	3154	3225
20°	3053	3150	3252
25°	3004	3135	3266
30°	2949	3107	3255
35°	2884	3068	3224
40°	2804	3001	3173
45°	2716	2909	3083
50°	2619	2803	2966
55°	2497	2664	2831
60°	2335	2481	2645
65°	2115	2245	2385
70°	1867	1961	2067
75°	1603	1639	1709
80°	1288	1313	1339
85°	942	837	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.5
10°-20°	319.7	10.2
20°-30°	486.3	15.4
30°-40°	581.8	18.5
40°-50°	588.2	18.7
50°-60°	506.2	16.1
60°-70°	349.5	11.1
70°-80°	169.4	5.4
80°-90°	36.7	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°	917.0	29.1
0°-40°	1498.9	47.6
0°-60°	2593.3	82.4
0°-90°	3149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1161	1163	1166	1171	1173	110
15°	1108	1115	1132	1149	1158	313
25°	1012	1024	1056	1088	1100	466
35°	878	893	934	968	981	549
45°	714	727	764	797	810	550
55°	532	541	568	593	603	475
65°	332	337	353	368	375	331
75°	154	151	158	163	164	164
85°	30	30	27	27	27	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.2	1171.2	1171.2	1171.2	1171.2
2.5°	1166.2	1166.2	1169.5	1172.9	1174.6
5°	1161.1	1162.8	1166.2	1171.2	1172.9
7.5°	1152.6	1154.3	1161.1	1169.5	1172.9
10°	1140.7	1144.1	1154.3	1164.5	1169.5
12.5°	1125.5	1132.3	1144.1	1157.7	1164.5
15°	1108.5	1115.3	1132.3	1149.2	1157.7
17.5°	1089.9	1096.7	1117.0	1139.0	1147.5
20°	1066.2	1076.3	1100.1	1125.5	1135.6
22.5°	1039.0	1052.6	1079.7	1106.8	1118.7
25°	1011.9	1023.8	1056.0	1088.2	1100.1
27.5°	981.4	995.0	1030.6	1062.8	1074.6
30°	949.2	962.8	1000.0	1035.6	1047.5
32.5°	913.6	930.6	966.1	1003.4	1017.0
35°	878.0	893.3	933.9	967.8	981.4
37.5°	840.7	854.3	895.0	930.6	944.1
40°	798.3	813.6	854.3	889.9	903.4
42.5°	757.7	772.9	810.2	844.1	856.0
45°	713.6	727.2	764.4	796.6	810.2
47.5°	669.5	684.8	717.0	749.2	762.7
50°	625.5	637.3	669.5	700.0	708.5
52.5°	579.7	589.9	618.7	645.8	657.7
55°	532.2	540.7	567.8	593.2	603.4
57.5°	481.4	491.5	517.0	535.6	547.5
60°	433.9	439.0	461.0	479.7	491.5
62.5°	386.5	388.2	405.1	423.7	430.5
65°	332.2	337.3	352.6	367.8	374.6
67.5°	283.1	288.1	300.0	311.9	317.0
70°	237.3	237.3	249.2	257.6	262.7
72.5°	191.5	193.2	201.7	206.8	211.9
75°	154.2	150.9	157.6	162.7	164.4
77.5°	115.3	113.6	118.6	120.3	123.7
80°	83.1	83.1	84.7	86.4	86.4
82.5°	54.2	54.2	55.9	52.5	50.8
85°	30.5	30.5	27.1	27.1	27.1
87.5°	10.2	10.2	10.2	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)