

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: P298321

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-35L83050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540.0 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

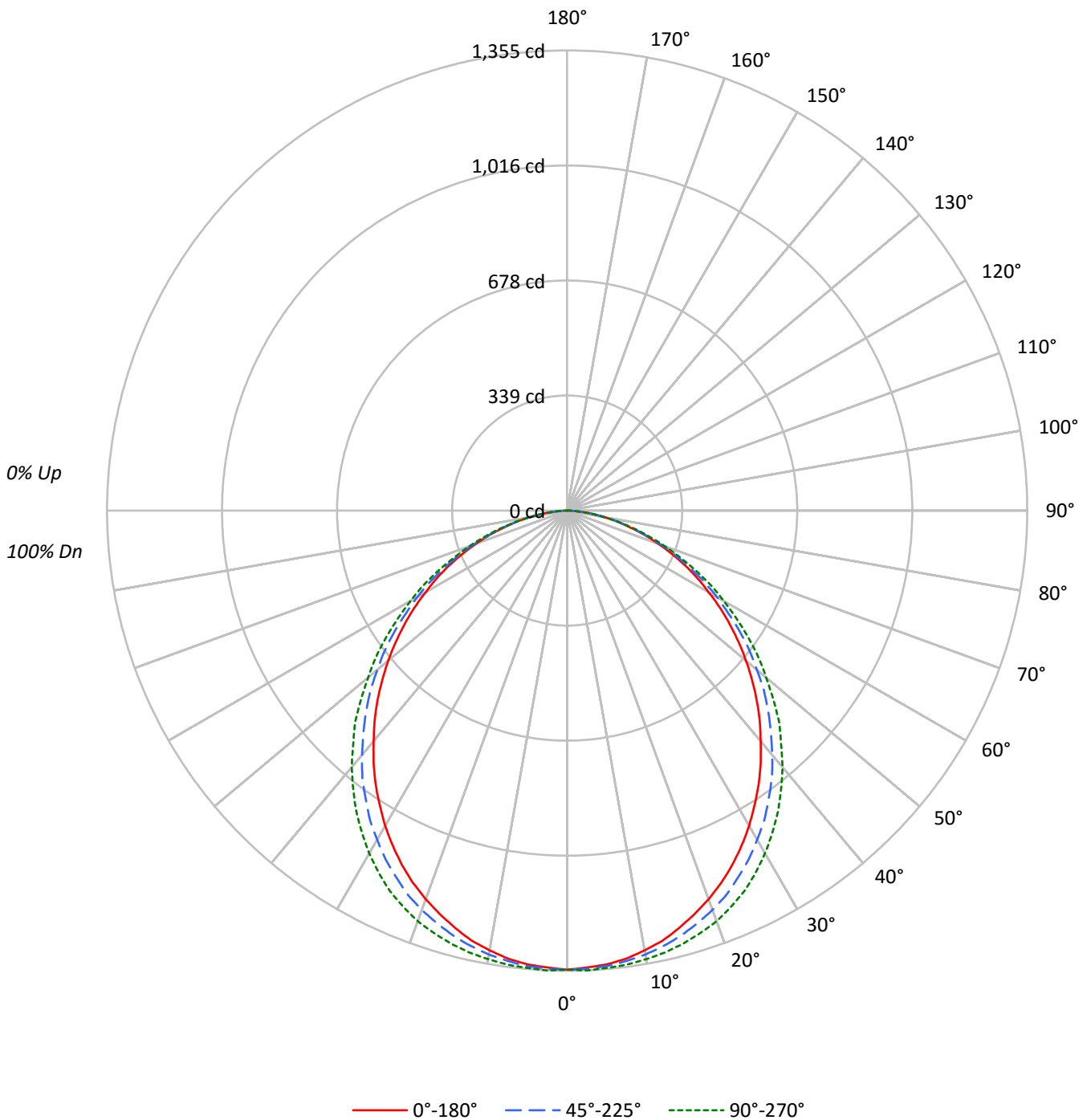
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	3638	3638	3638
5°	3623	3638	3652
10°	3593	3627	3665
15°	3545	3609	3678
20°	3488	3584	3685
25°	3418	3538	3669
30°	3330	3478	3620
35°	3231	3399	3555
40°	3114	3300	3467
45°	3005	3186	3360
50°	2878	3055	3203
55°	2746	2911	3051
60°	2590	2742	2865
65°	2446	2536	2660
70°	2246	2316	2399
75°	1997	2052	2108
80°	1720	1694	1694
85°	1306	1198	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.6
10°-20°	365.5	10.3
20°-30°	548.8	15.5
30°-40°	645.9	18.2
40°-50°	644.3	18.2
50°-60°	552.9	15.6
60°-70°	395.9	11.2
70°-80°	209.7	5.9
80°-90°	49.0	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°	1042.2	29.4
0°-40°	1688.2	47.7
0°-60°	2885.3	81.5
0°-90°	3540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1341	1341	1347	1350	1352	127
15°	1273	1278	1296	1313	1320	359
25°	1151	1162	1192	1222	1236	530
35°	984	996	1035	1070	1082	614
45°	790	802	837	867	883	609
55°	585	594	620	642	650	523
65°	384	386	398	414	418	379
75°	192	192	197	201	203	206
85°	42	40	39	35	35	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.9	1351.9	1351.9	1351.9	1351.9
2.5°	1346.6	1346.6	1350.1	1353.7	1355.4
5°	1341.3	1341.3	1346.6	1350.1	1351.9
7.5°	1330.7	1330.7	1337.8	1344.8	1348.4
10°	1314.9	1318.4	1327.2	1337.8	1341.3
12.5°	1297.3	1300.8	1313.1	1327.2	1332.5
15°	1272.6	1277.9	1295.5	1313.1	1320.2
17.5°	1246.1	1253.2	1274.3	1295.5	1304.3
20°	1217.9	1225.0	1251.4	1276.1	1286.7
22.5°	1186.2	1195.0	1225.0	1251.4	1262.0
25°	1151.0	1161.5	1191.5	1221.5	1235.6
27.5°	1112.2	1124.5	1158.0	1189.7	1202.1
30°	1071.6	1085.7	1119.2	1152.7	1165.1
32.5°	1027.6	1039.9	1080.5	1112.2	1124.5
35°	983.5	995.9	1034.6	1069.9	1082.2
37.5°	935.9	951.8	990.6	1022.3	1034.6
40°	886.6	902.4	939.5	976.5	987.0
42.5°	839.0	853.1	888.3	921.8	932.4
45°	789.6	802.0	837.2	867.2	883.0
47.5°	738.5	750.9	786.1	814.3	823.1
50°	687.4	699.7	729.7	754.4	765.0
52.5°	636.3	648.6	676.8	699.7	710.3
55°	585.2	594.0	620.4	641.6	650.4
57.5°	534.1	541.1	562.3	585.2	590.5
60°	481.2	490.0	509.4	525.2	532.3
62.5°	433.6	437.1	454.7	468.8	477.7
65°	384.2	386.0	398.3	414.2	417.7
67.5°	333.1	334.9	347.2	356.0	359.6
70°	285.5	285.5	294.3	301.4	304.9
72.5°	239.7	237.9	243.2	250.3	253.8
75°	192.1	192.1	197.4	200.9	202.7
77.5°	151.6	148.1	151.6	155.1	155.1
80°	111.0	109.3	109.3	111.0	109.3
82.5°	75.8	74.0	75.8	72.3	70.5
85°	42.3	40.5	38.8	35.3	35.3
87.5°	14.1	12.3	12.3	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)