

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: P297565

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297565
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-35L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3385.0 lumens
Efficiency: N/A
Efficacy: 100.7 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

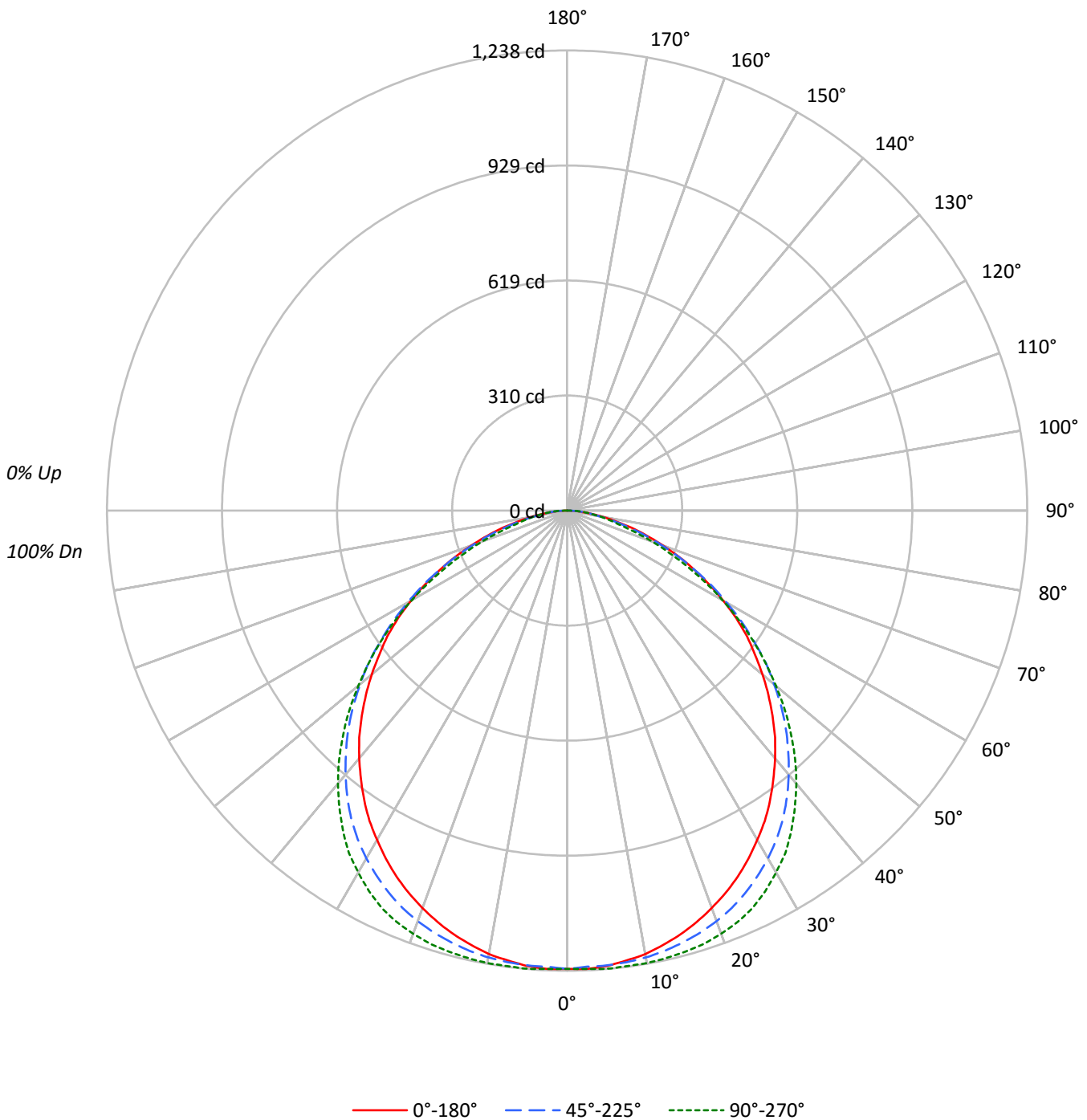
Input Watts (W): 33.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3318	3318	3318
5°	3323	3318	3343
10°	3311	3336	3377
15°	3288	3351	3422
20°	3258	3367	3470
25°	3226	3369	3504
30°	3178	3357	3493
35°	3127	3326	3455
40°	3057	3259	3371
45°	2973	3169	3243
50°	2872	3043	3068
55°	2772	2878	2864
60°	2610	2667	2602
65°	2405	2415	2280
70°	2152	2104	1914
75°	1869	1744	1476
80°	1499	1358	1358
85°	1074	1260	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.5
10°-20°	340.4	10.1
20°-30°	522.6	15.4
30°-40°	629.4	18.6
40°-50°	636.0	18.8
50°-60°	542.5	16.0
60°-70°	371.4	11.0
70°-80°	179.2	5.3
80°-90°	46.2	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°	980.2	29.0
0°-40°	1609.6	47.6
0°-60°	2788.2	82.4
0°-90°	3385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1230	1230	1228	1236	1238	117
15°	1180	1189	1203	1224	1228	333
25°	1086	1103	1135	1168	1180	500
35°	952	973	1012	1044	1052	595
45°	781	802	833	852	852	602
55°	591	601	614	616	610	526
65°	378	382	379	366	358	375
75°	180	180	168	148	142	191
85°	35	38	41	42	42	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.0	1233.0	1233.0	1233.0	1233.0
2.5°	1234.5	1233.0	1228.4	1234.5	1234.5
5°	1230.0	1230.0	1228.4	1236.0	1237.5
7.5°	1220.9	1223.9	1225.4	1234.5	1236.0
10°	1211.8	1214.8	1220.9	1233.0	1236.0
12.5°	1196.7	1202.8	1213.3	1230.0	1233.0
15°	1180.1	1189.2	1202.8	1223.9	1228.4
17.5°	1160.4	1172.5	1190.7	1214.8	1222.4
20°	1137.8	1151.4	1175.6	1202.8	1211.8
22.5°	1113.6	1128.7	1157.4	1189.2	1198.2
25°	1086.4	1103.0	1134.8	1168.0	1180.1
27.5°	1056.2	1074.3	1109.1	1143.8	1154.4
30°	1022.9	1042.6	1080.4	1115.1	1124.2
32.5°	989.7	1009.3	1048.6	1081.9	1092.5
35°	951.9	973.1	1012.4	1044.1	1051.7
37.5°	911.1	932.3	971.6	1003.3	1006.3
40°	870.3	891.5	927.8	956.5	959.5
42.5°	828.0	847.7	880.9	905.1	908.1
45°	781.2	802.3	832.6	852.2	852.2
47.5°	734.3	755.5	781.2	794.8	794.8
50°	686.0	705.6	726.8	734.3	732.8
52.5°	637.6	655.8	673.9	675.4	672.4
55°	590.8	601.4	613.5	616.5	610.4
57.5°	539.4	548.5	556.0	551.5	547.0
60°	485.0	494.1	495.6	488.1	483.5
62.5°	432.1	439.7	439.7	427.6	420.1
65°	377.7	382.3	379.3	365.7	358.1
67.5°	326.4	329.4	323.4	309.8	297.7
70°	273.5	275.0	267.4	250.8	243.3
72.5°	225.1	226.6	217.6	197.9	188.9
75°	179.8	179.8	167.7	148.1	142.0
77.5°	134.5	139.0	125.4	114.8	114.8
80°	96.7	101.2	87.6	89.1	87.6
82.5°	63.5	68.0	63.5	63.5	63.5
85°	34.8	37.8	40.8	42.3	42.3
87.5°	10.6	18.1	19.6	21.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)