

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: P297569

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297569
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-40L83050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

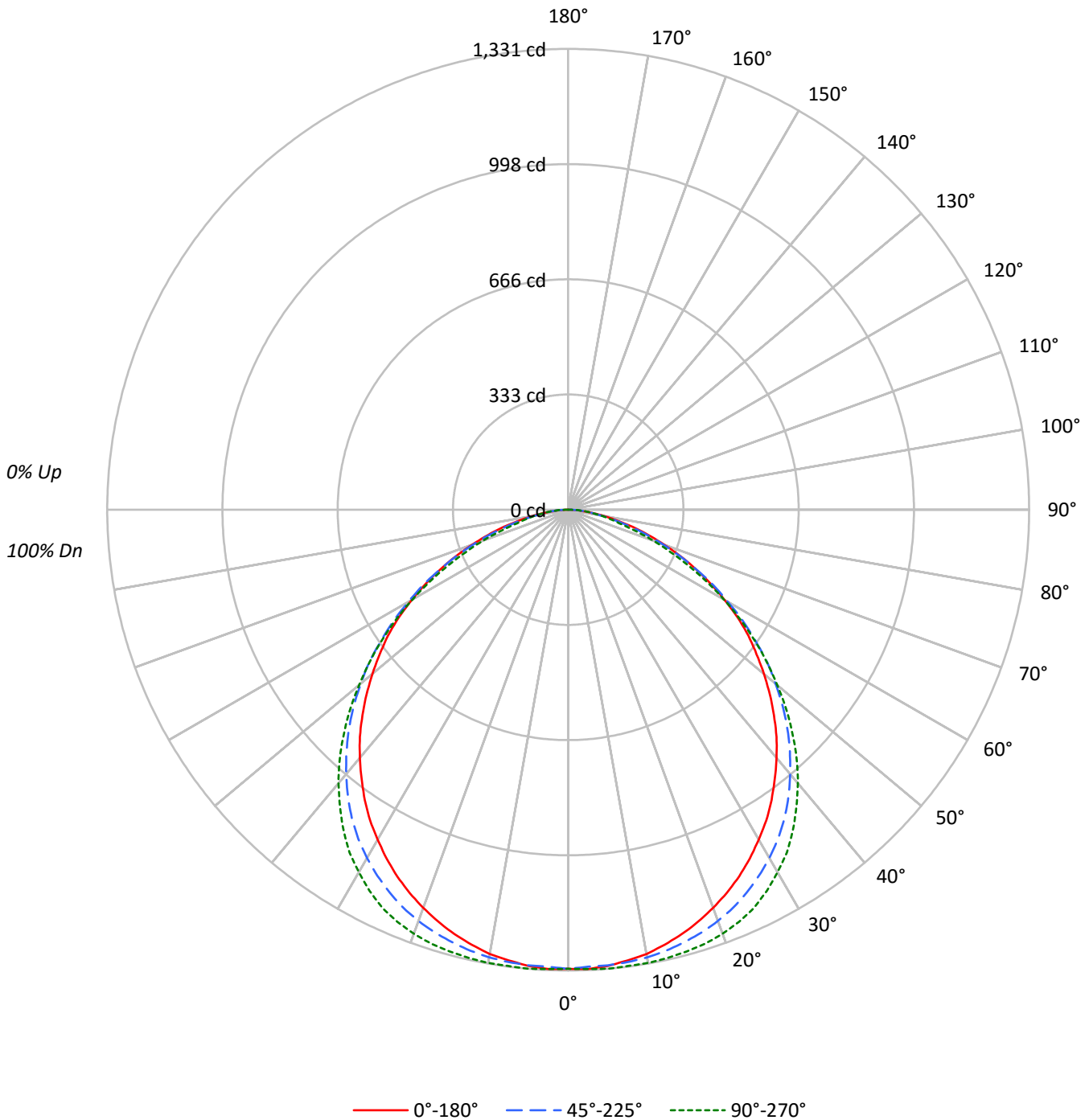
Input Watts (W): 39.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3568	3568	3568
5°	3573	3568	3595
10°	3561	3587	3632
15°	3535	3603	3680
20°	3504	3620	3732
25°	3469	3623	3768
30°	3418	3610	3756
35°	3363	3576	3715
40°	3288	3504	3625
45°	3197	3407	3487
50°	3088	3272	3299
55°	2981	3095	3080
60°	2807	2868	2798
65°	2586	2597	2452
70°	2314	2263	2058
75°	2011	1876	1588
80°	1612	1460	1460
85°	1155	1355	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	3.5
10°-20°	366.0	10.1
20°-30°	562.0	15.4
30°-40°	676.8	18.6
40°-50°	684.0	18.8
50°-60°	583.4	16.0
60°-70°	399.4	11.0
70°-80°	192.7	5.3
80°-90°	49.7	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°	1054.1	29.0
0°-40°	1730.9	47.6
0°-60°	2998.3	82.4
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1323	1321	1329	1331	126
15°	1269	1279	1293	1316	1321	358
25°	1168	1186	1220	1256	1269	538
35°	1024	1046	1089	1123	1131	640
45°	840	863	895	916	916	648
55°	635	647	660	663	656	566
65°	406	411	408	393	385	403
75°	193	193	180	159	153	205
85°	37	41	44	46	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.9	1325.9	1325.9	1325.9	1325.9
2.5°	1327.5	1325.9	1321.0	1327.5	1327.5
5°	1322.6	1322.6	1321.0	1329.1	1330.7
7.5°	1312.9	1316.1	1317.7	1327.5	1329.1
10°	1303.1	1306.4	1312.9	1325.9	1329.1
12.5°	1286.9	1293.4	1304.7	1322.6	1325.9
15°	1269.0	1278.7	1293.4	1316.1	1321.0
17.5°	1247.9	1260.9	1280.4	1306.4	1314.5
20°	1223.5	1238.1	1264.1	1293.4	1303.1
22.5°	1197.5	1213.7	1244.6	1278.7	1288.5
25°	1168.2	1186.1	1220.2	1256.0	1269.0
27.5°	1135.8	1155.3	1192.6	1230.0	1241.4
30°	1100.0	1121.1	1161.7	1199.1	1208.9
32.5°	1064.3	1085.4	1127.6	1163.4	1174.7
35°	1023.6	1046.4	1088.6	1122.8	1130.9
37.5°	979.8	1002.5	1044.8	1078.9	1082.1
40°	935.9	958.6	997.6	1028.5	1031.8
42.5°	890.4	911.5	947.3	973.3	976.5
45°	840.0	862.8	895.3	916.4	916.4
47.5°	789.7	812.4	840.0	854.7	854.7
50°	737.7	758.8	781.5	789.7	788.0
52.5°	685.7	705.2	724.7	726.3	723.0
55°	635.3	646.7	659.7	662.9	656.4
57.5°	580.1	589.8	597.9	593.1	588.2
60°	521.6	531.3	532.9	524.8	519.9
62.5°	464.7	472.8	472.8	459.8	451.7
65°	406.2	411.1	407.8	393.2	385.1
67.5°	351.0	354.2	347.7	333.1	320.1
70°	294.1	295.7	287.6	269.7	261.6
72.5°	242.1	243.7	234.0	212.9	203.1
75°	193.4	193.4	180.4	159.2	152.7
77.5°	144.6	149.5	134.9	123.5	123.5
80°	104.0	108.9	94.2	95.9	94.2
82.5°	68.2	73.1	68.2	68.2	68.2
85°	37.4	40.6	43.9	45.5	45.5
87.5°	11.4	19.5	21.1	22.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)