

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: P297751

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L82765-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

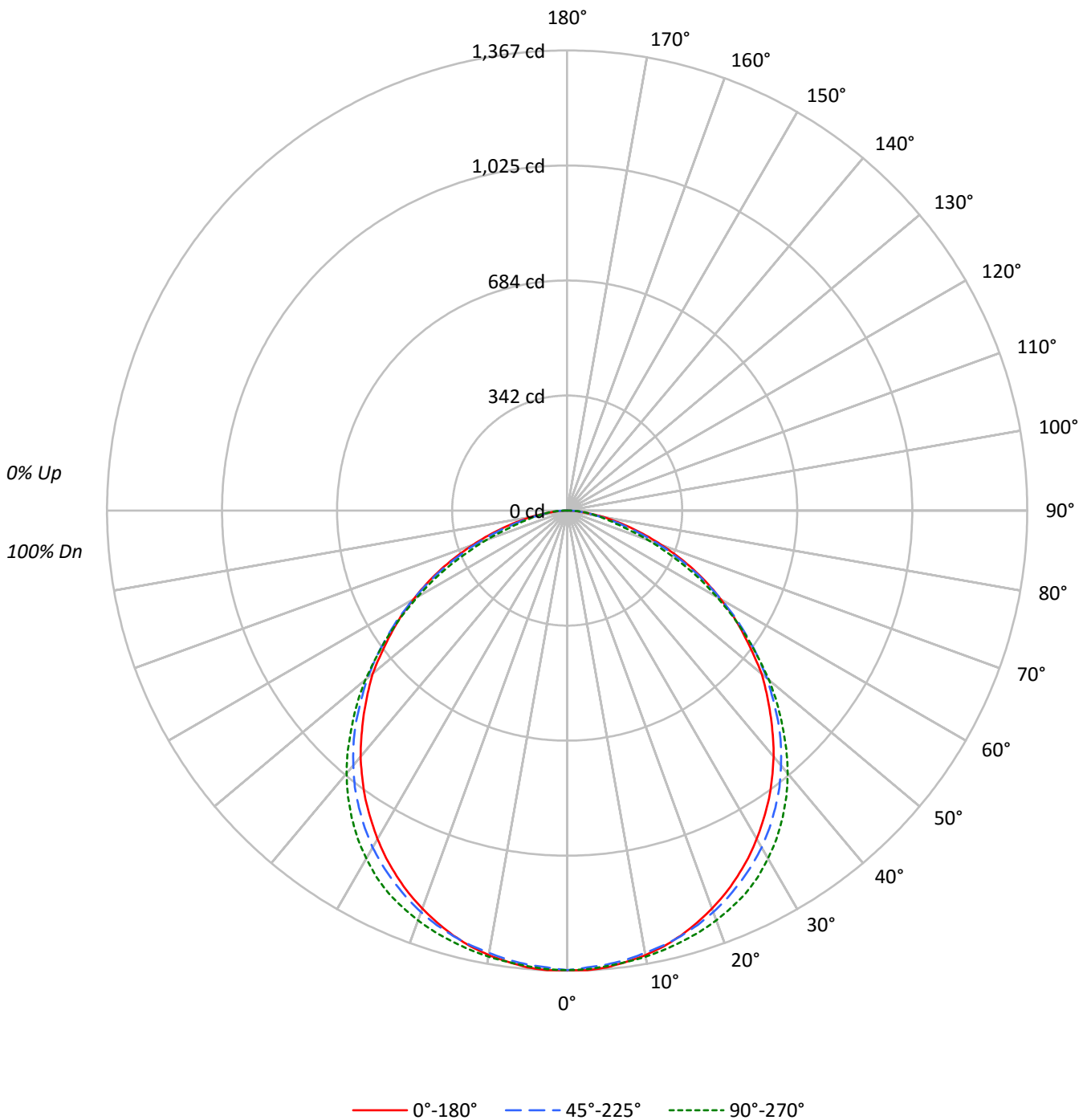
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	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°	3674	3674	3674
5°	3679	3657	3670
10°	3664	3646	3677
15°	3640	3645	3690
20°	3603	3635	3710
25°	3557	3615	3726
30°	3501	3591	3707
35°	3434	3541	3664
40°	3353	3473	3581
45°	3249	3373	3441
50°	3160	3242	3275
55°	3001	3062	3046
60°	2840	2840	2761
65°	2635	2574	2429
70°	2338	2235	2018
75°	2025	1839	1552
80°	1660	1433	1409
85°	1102	1303	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	3.6
10°-20°	370.5	10.2
20°-30°	563.1	15.5
30°-40°	674.2	18.6
40°-50°	680.1	18.7
50°-60°	579.3	16.0
60°-70°	396.1	10.9
70°-80°	189.7	5.2
80°-90°	48.0	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°	1062.7	29.3
0°-40°	1736.9	47.8
0°-60°	2996.2	82.5
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1362	1360	1354	1360	1359	129
15°	1307	1304	1308	1323	1325	368
25°	1198	1200	1218	1245	1255	552
35°	1045	1049	1078	1109	1115	653
45°	854	860	886	904	904	659
55°	640	643	653	654	649	573
65°	414	406	404	390	382	408
75°	195	192	177	154	149	208
85°	36	39	42	44	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.2	1365.2	1365.2	1365.2	1365.2
2.5°	1366.8	1365.2	1358.7	1365.2	1363.6
5°	1361.9	1360.3	1353.8	1360.3	1358.7
7.5°	1352.2	1350.6	1345.7	1352.2	1352.2
10°	1340.8	1337.6	1334.3	1344.1	1345.7
12.5°	1326.2	1323.0	1323.0	1334.3	1336.0
15°	1306.7	1303.5	1308.4	1323.0	1324.6
17.5°	1284.0	1282.4	1290.5	1308.4	1311.6
20°	1258.0	1256.4	1269.4	1290.5	1295.4
22.5°	1230.4	1230.4	1245.1	1269.4	1275.9
25°	1198.0	1199.6	1217.5	1245.1	1254.8
27.5°	1163.9	1167.1	1188.2	1219.1	1227.2
30°	1126.6	1131.4	1155.8	1185.0	1193.1
32.5°	1086.0	1090.8	1118.4	1149.3	1157.4
35°	1045.4	1048.6	1077.9	1108.7	1115.2
37.5°	999.9	1004.8	1035.7	1063.2	1069.7
40°	954.5	959.4	988.6	1014.5	1019.4
42.5°	904.2	910.7	939.9	961.0	964.2
45°	853.8	860.3	886.3	904.2	904.2
47.5°	803.5	806.8	829.5	847.4	845.7
50°	754.8	753.2	774.3	782.4	782.4
52.5°	694.8	699.6	714.2	719.1	714.2
55°	639.6	642.8	652.6	654.2	649.3
57.5°	586.0	584.4	592.5	587.6	581.1
60°	527.6	527.6	527.6	522.7	513.0
62.5°	470.8	467.5	465.9	454.5	449.6
65°	413.9	405.8	404.2	389.6	381.5
67.5°	353.9	350.6	342.5	327.9	313.3
70°	297.1	293.8	284.1	266.2	256.5
72.5°	245.1	241.9	228.9	207.8	194.8
75°	194.8	191.5	176.9	154.2	149.3
77.5°	147.7	146.1	131.5	120.1	118.5
80°	107.1	105.5	92.5	92.5	90.9
82.5°	68.2	68.2	64.9	66.6	68.2
85°	35.7	39.0	42.2	43.8	45.5
87.5°	11.4	17.9	21.1	22.7	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)