

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: P298039

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298039
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-40L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3764.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

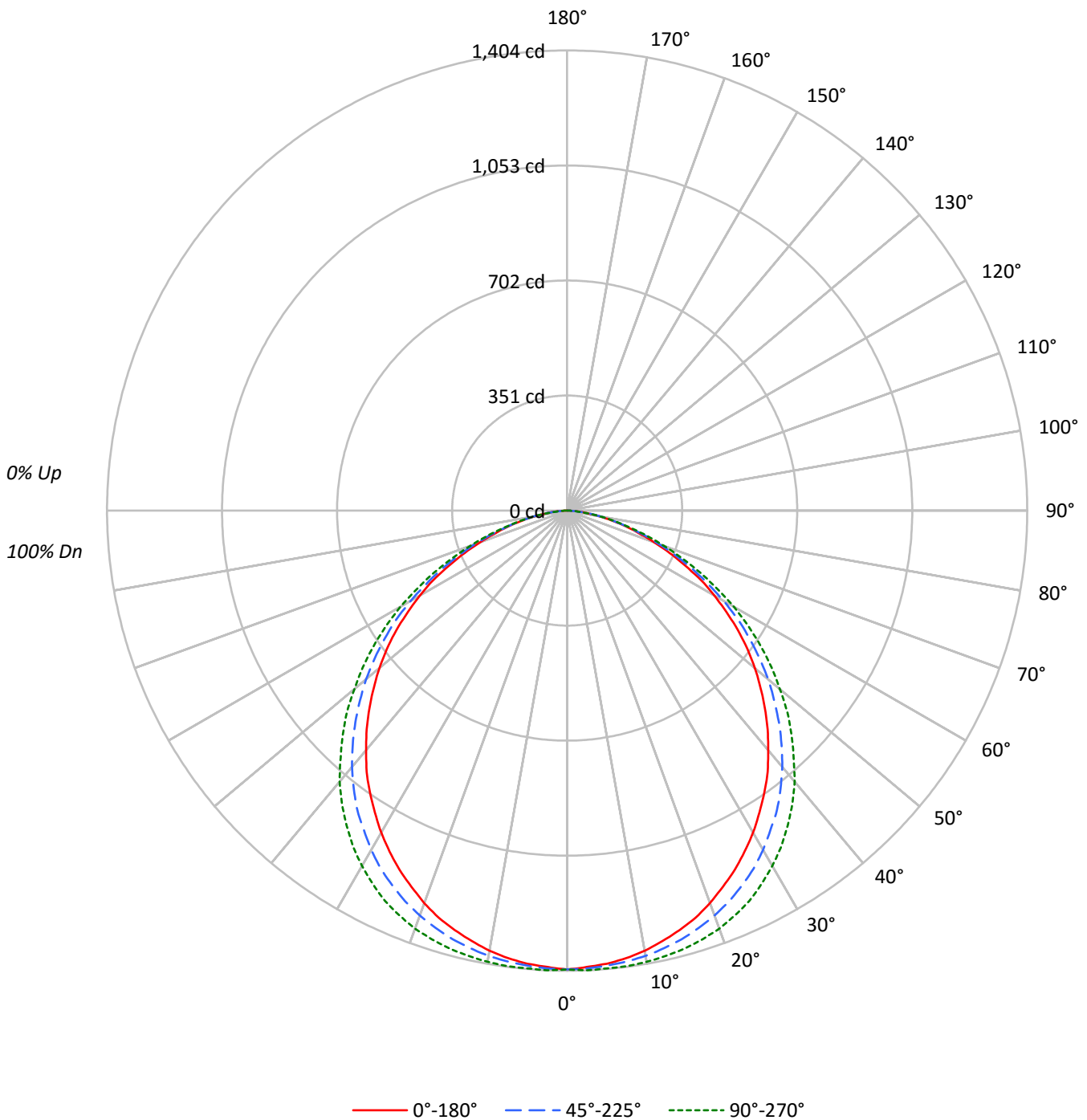
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3767	3767	3767
5°	3749	3765	3787
10°	3726	3770	3820
15°	3691	3770	3855
20°	3649	3765	3887
25°	3591	3748	3904
30°	3526	3714	3891
35°	3448	3667	3854
40°	3352	3587	3793
45°	3246	3477	3685
50°	3130	3350	3545
55°	2985	3184	3384
60°	2792	2966	3162
65°	2528	2683	2851
70°	2231	2343	2471
75°	1917	1959	2043
80°	1539	1570	1601
85°	1127	1000	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.5
10°-20°	382.2	10.2
20°-30°	581.3	15.4
30°-40°	695.5	18.5
40°-50°	703.1	18.7
50°-60°	605.1	16.1
60°-70°	417.7	11.1
70°-80°	202.5	5.4
80°-90°	43.9	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°	1096.1	29.1
0°-40°	1791.6	47.6
0°-60°	3099.8	82.4
0°-90°	3764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1400	1400	1400	1400	1400	
5°	1388	1390	1394	1400	1402	132
15°	1325	1333	1353	1374	1384	374
25°	1210	1224	1262	1301	1315	557
35°	1050	1068	1116	1157	1173	656
45°	853	869	914	952	968	658
55°	636	646	679	709	721	567
65°	397	403	421	440	448	395
75°	184	180	188	194	196	196
85°	36	36	32	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1400.0	1400.0	1400.0	1400.0	1400.0
2.5°	1393.9	1393.9	1398.0	1402.0	1404.0
5°	1387.8	1389.9	1393.9	1400.0	1402.0
7.5°	1377.7	1379.7	1387.8	1398.0	1402.0
10°	1363.5	1367.6	1379.7	1391.9	1398.0
12.5°	1345.3	1353.4	1367.6	1383.8	1391.9
15°	1325.0	1333.1	1353.4	1373.6	1383.8
17.5°	1302.7	1310.8	1335.2	1361.5	1371.6
20°	1274.4	1286.5	1314.9	1345.3	1357.4
22.5°	1242.0	1258.2	1290.6	1323.0	1337.2
25°	1209.5	1223.7	1262.2	1300.7	1314.9
27.5°	1173.1	1189.3	1231.8	1270.3	1284.5
30°	1134.6	1150.8	1195.4	1237.9	1252.1
32.5°	1092.0	1112.3	1154.8	1199.4	1215.6
35°	1049.5	1067.7	1116.3	1156.9	1173.1
37.5°	1004.9	1021.1	1069.7	1112.3	1128.5
40°	954.3	972.5	1021.1	1063.7	1079.9
42.5°	905.6	923.9	968.4	1009.0	1023.1
45°	853.0	869.2	913.7	952.2	968.4
47.5°	800.3	818.5	857.0	895.5	911.7
50°	747.6	761.8	800.3	836.8	846.9
52.5°	692.9	705.1	739.5	771.9	786.1
55°	636.2	646.3	678.7	709.1	721.3
57.5°	575.4	587.5	617.9	640.2	654.4
60°	518.7	524.7	551.1	573.4	587.5
62.5°	461.9	464.0	484.2	506.5	514.6
65°	397.1	403.2	421.4	439.6	447.8
67.5°	338.3	344.4	358.6	372.8	378.9
70°	283.6	283.6	297.8	308.0	314.0
72.5°	228.9	231.0	241.1	247.2	253.3
75°	184.4	180.3	188.4	194.5	196.5
77.5°	137.8	135.7	141.8	143.8	147.9
80°	99.3	99.3	101.3	103.3	103.3
82.5°	64.8	64.8	66.9	62.8	60.8
85°	36.5	36.5	32.4	32.4	32.4
87.5°	12.2	12.2	12.2	14.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)