

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: P298056

Luminaire Tested: **D3X-WD-20L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298056
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-20L93050-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1734.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

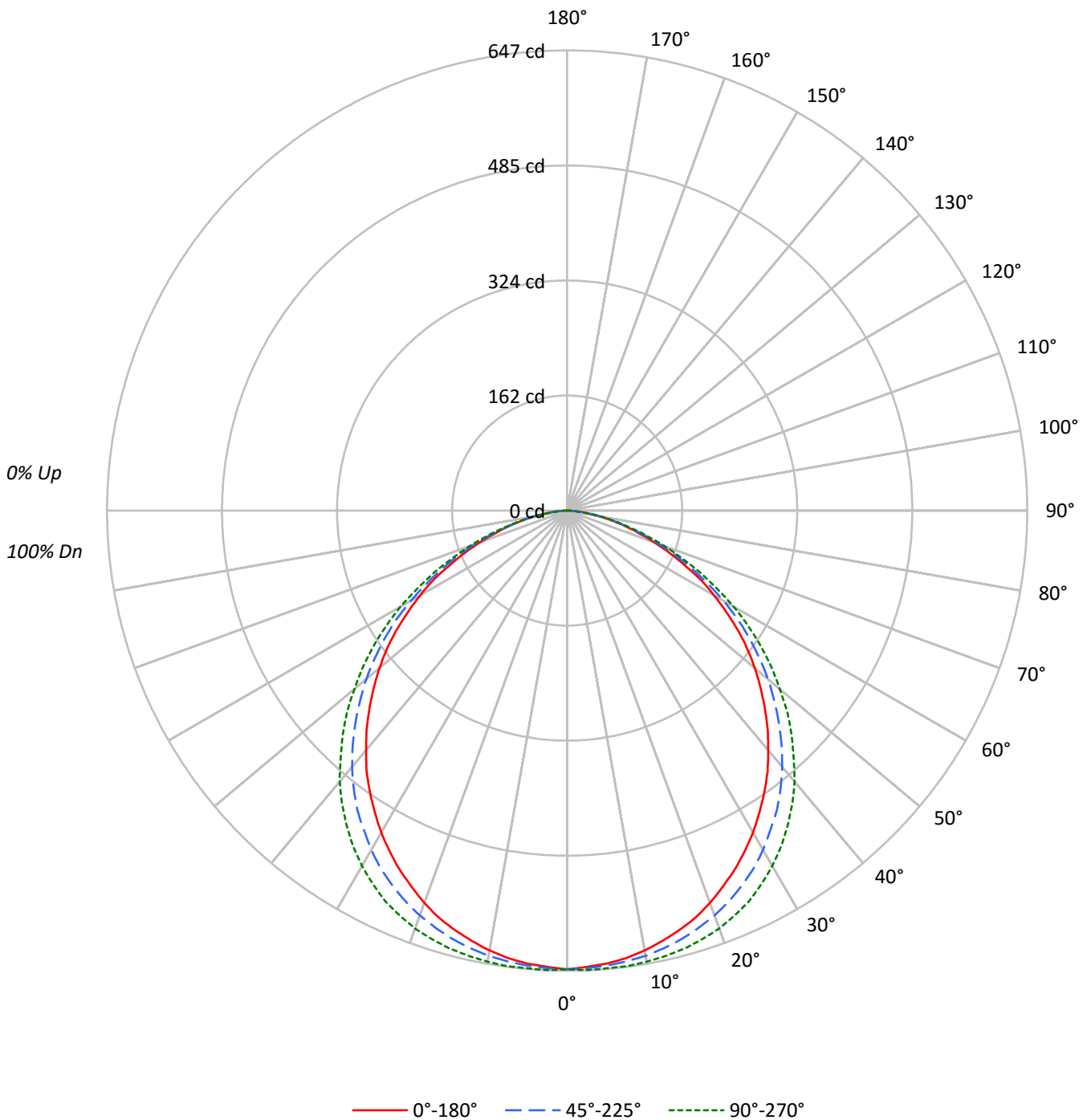
Input Watts (W): 16.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1735	1735	1735
5°	1727	1734	1745
10°	1716	1737	1760
15°	1701	1737	1776
20°	1681	1735	1791
25°	1654	1727	1798
30°	1624	1711	1792
35°	1588	1690	1775
40°	1544	1652	1748
45°	1495	1602	1698
50°	1442	1544	1633
55°	1375	1467	1559
60°	1286	1366	1457
65°	1165	1236	1314
70°	1028	1079	1138
75°	883	902	941
80°	708	724	738
85°	519	460	460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	3.5
10°-20°	176.1	10.2
20°-30°	267.8	15.4
30°-40°	320.4	18.5
40°-50°	323.9	18.7
50°-60°	278.7	16.1
60°-70°	192.4	11.1
70°-80°	93.3	5.4
80°-90°	20.2	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°	505.0	29.1
0°-40°	825.4	47.6
0°-60°	1428.0	82.4
0°-90°	1734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	639	640	642	645	646	61
15°	610	614	624	633	638	172
25°	557	564	582	599	606	257
35°	484	492	514	533	540	302
45°	393	400	421	439	446	303
55°	293	298	313	327	332	261
65°	183	186	194	202	206	182
75°	85	83	87	90	90	90
85°	17	17	15	15	15	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.9	644.9	644.9	644.9	644.9
2.5°	642.1	642.1	644.0	645.9	646.8
5°	639.3	640.3	642.1	644.9	645.9
7.5°	634.7	635.6	639.3	644.0	645.9
10°	628.1	630.0	635.6	641.2	644.0
12.5°	619.7	623.5	630.0	637.5	641.2
15°	610.4	614.1	623.5	632.8	637.5
17.5°	600.1	603.9	615.1	627.2	631.9
20°	587.1	592.7	605.7	619.7	625.3
22.5°	572.1	579.6	594.5	609.5	616.0
25°	557.2	563.7	581.5	599.2	605.7
27.5°	540.4	547.9	567.5	585.2	591.7
30°	522.7	530.1	550.7	570.3	576.8
32.5°	503.1	512.4	532.0	552.5	560.0
35°	483.5	491.9	514.3	532.9	540.4
37.5°	462.9	470.4	492.8	512.4	519.9
40°	439.6	448.0	470.4	490.0	497.5
42.5°	417.2	425.6	446.1	464.8	471.3
45°	392.9	400.4	420.9	438.7	446.1
47.5°	368.7	377.1	394.8	412.5	420.0
50°	344.4	350.9	368.7	385.5	390.1
52.5°	319.2	324.8	340.7	355.6	362.1
55°	293.1	297.7	312.7	326.7	332.3
57.5°	265.1	270.7	284.7	294.9	301.5
60°	238.9	241.7	253.9	264.1	270.7
62.5°	212.8	213.7	223.1	233.3	237.1
65°	182.9	185.7	194.1	202.5	206.3
67.5°	155.9	158.7	165.2	171.7	174.5
70°	130.7	130.7	137.2	141.9	144.7
72.5°	105.5	106.4	111.1	113.9	116.7
75°	84.9	83.1	86.8	89.6	90.5
77.5°	63.5	62.5	65.3	66.3	68.1
80°	45.7	45.7	46.7	47.6	47.6
82.5°	29.9	29.9	30.8	28.9	28.0
85°	16.8	16.8	14.9	14.9	14.9
87.5°	5.6	5.6	5.6	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)