

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: P297566

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297566
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3554.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

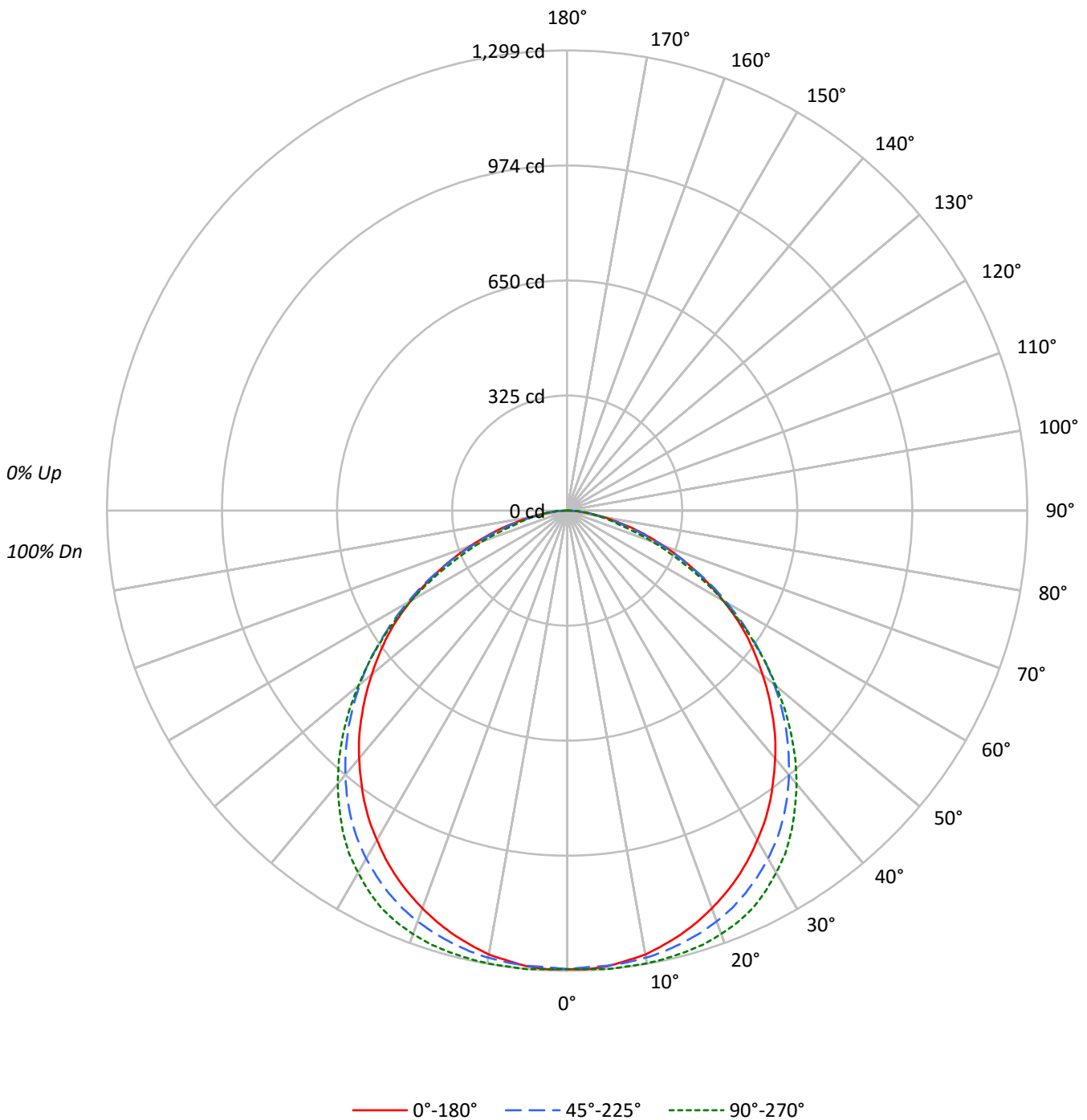
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3483	3483	3483
5°	3488	3484	3510
10°	3477	3503	3546
15°	3452	3518	3593
20°	3421	3534	3643
25°	3387	3537	3679
30°	3337	3525	3668
35°	3283	3492	3627
40°	3210	3422	3539
45°	3121	3326	3405
50°	3015	3195	3221
55°	2910	3022	3007
60°	2740	2801	2732
65°	2525	2535	2394
70°	2259	2209	2009
75°	1963	1831	1550
80°	1573	1426	1426
85°	1127	1321	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.5
10°-20°	357.3	10.1
20°-30°	548.7	15.4
30°-40°	660.8	18.6
40°-50°	667.8	18.8
50°-60°	569.6	16.0
60°-70°	389.9	11.0
70°-80°	188.2	5.3
80°-90°	48.5	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°	1029.2	29.0
0°-40°	1690.0	47.6
0°-60°	2927.4	82.4
0°-90°	3554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1291	1291	1290	1298	1299	123
15°	1239	1248	1263	1285	1290	349
25°	1141	1158	1191	1226	1239	525
35°	1000	1022	1063	1096	1104	625
45°	820	842	874	895	895	633
55°	620	631	644	647	641	552
65°	397	401	398	384	376	393
75°	189	189	176	156	149	200
85°	36	40	43	44	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.5	1294.5	1294.5	1294.5	1294.5
2.5°	1296.1	1294.5	1289.8	1296.1	1296.1
5°	1291.4	1291.4	1289.8	1297.7	1299.3
7.5°	1281.8	1285.0	1286.6	1296.1	1297.7
10°	1272.3	1275.5	1281.8	1294.5	1297.7
12.5°	1256.5	1262.8	1273.9	1291.4	1294.5
15°	1239.0	1248.5	1262.8	1285.0	1289.8
17.5°	1218.4	1231.1	1250.1	1275.5	1283.4
20°	1194.6	1208.9	1234.2	1262.8	1272.3
22.5°	1169.2	1185.1	1215.2	1248.5	1258.0
25°	1140.6	1158.1	1191.4	1226.3	1239.0
27.5°	1108.9	1128.0	1164.4	1200.9	1212.0
30°	1074.0	1094.6	1134.3	1170.8	1180.3
32.5°	1039.1	1059.7	1101.0	1135.9	1147.0
35°	999.5	1021.7	1062.9	1096.2	1104.2
37.5°	956.6	978.8	1020.1	1053.4	1056.6
40°	913.8	936.0	974.1	1004.2	1007.4
42.5°	869.4	890.0	924.9	950.3	953.4
45°	820.2	842.4	874.1	894.7	894.7
47.5°	771.0	793.2	820.2	834.5	834.5
50°	720.2	740.9	763.1	771.0	769.4
52.5°	669.5	688.5	707.6	709.1	706.0
55°	620.3	631.4	644.1	647.3	640.9
57.5°	566.4	575.9	583.8	579.0	574.3
60°	509.2	518.8	520.4	512.4	507.7
62.5°	453.7	461.7	461.7	449.0	441.0
65°	396.6	401.4	398.2	383.9	376.0
67.5°	342.7	345.8	339.5	325.2	312.5
70°	287.1	288.7	280.8	263.3	255.4
72.5°	236.4	238.0	228.4	207.8	198.3
75°	188.8	188.8	176.1	155.5	149.1
77.5°	141.2	146.0	131.7	120.6	120.6
80°	101.5	106.3	92.0	93.6	92.0
82.5°	66.6	71.4	66.6	66.6	66.6
85°	36.5	39.7	42.8	44.4	44.4
87.5°	11.1	19.0	20.6	22.2	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)