

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: P257413

Luminaire Tested: **D3X-WG-35L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-35L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3353.4 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

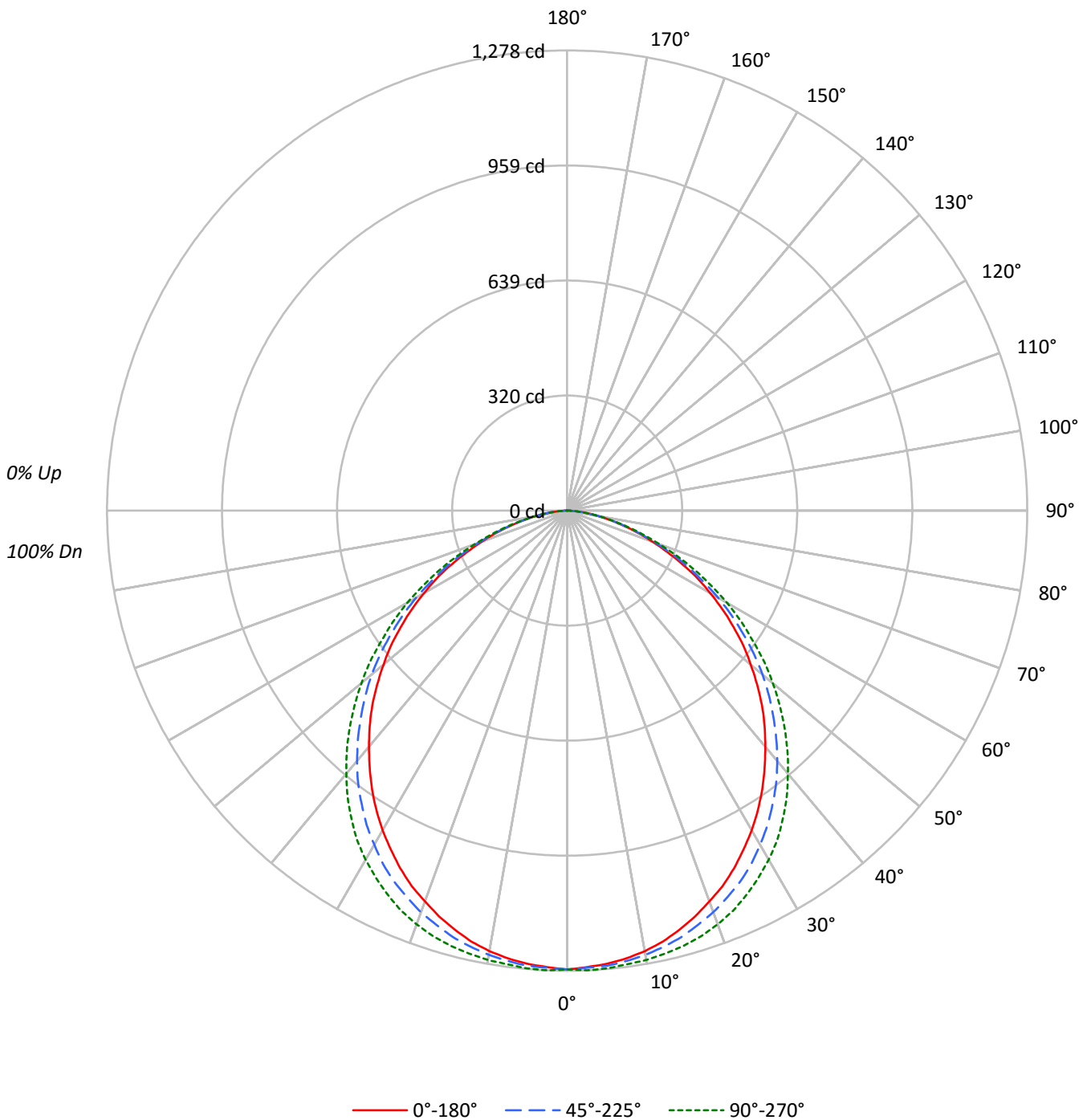
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3429	3429	3429
5°	3414	3428	3447
10°	3395	3424	3463
15°	3357	3416	3486
20°	3308	3399	3501
25°	3255	3377	3498
30°	3186	3329	3479
35°	3105	3268	3432
40°	3007	3189	3351
45°	2912	3082	3251
50°	2787	2966	3122
55°	2647	2797	2948
60°	2471	2605	2759
65°	2255	2357	2493
70°	1975	2058	2142
75°	1684	1721	1795
80°	1351	1379	1407
85°	988	936	880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.6
10°-20°	346.2	10.3
20°-30°	523.4	15.6
30°-40°	621.7	18.5
40°-50°	624.1	18.6
50°-60°	533.1	15.9
60°-70°	367.3	11.0
70°-80°	178.1	5.3
80°-90°	39.0	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°	990.2	29.5
0°-40°	1611.9	48.1
0°-60°	2769.0	82.6
0°-90°	3353.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3353.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1264	1264	1269	1273	1276	120
15°	1205	1210	1226	1242	1251	340
25°	1096	1105	1137	1168	1178	505
35°	945	959	995	1032	1045	590
45°	765	776	810	844	854	589
55°	564	573	596	621	628	504
65°	354	354	370	386	392	351
75°	162	158	166	169	173	174
85°	32	32	30	28	28	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.4	1274.4	1274.4	1274.4	1274.4
2.5°	1269.0	1269.0	1270.8	1276.1	1277.9
5°	1263.7	1263.7	1269.0	1272.6	1276.1
7.5°	1254.8	1256.6	1261.9	1269.0	1270.8
10°	1242.3	1244.1	1253.0	1261.9	1267.2
12.5°	1226.3	1229.9	1240.5	1254.8	1260.1
15°	1204.9	1210.3	1226.3	1242.3	1251.2
17.5°	1181.8	1188.9	1206.7	1229.9	1238.8
20°	1155.1	1164.0	1187.1	1212.1	1222.7
22.5°	1128.4	1135.5	1162.2	1190.7	1203.2
25°	1096.4	1105.3	1137.3	1167.6	1178.2
27.5°	1060.8	1073.2	1107.1	1139.1	1149.8
30°	1025.2	1035.9	1071.5	1107.1	1119.5
32.5°	986.0	996.7	1035.9	1071.5	1085.7
35°	945.1	959.3	994.9	1032.3	1044.8
37.5°	900.6	916.6	954.0	986.0	1002.0
40°	856.1	870.3	907.7	941.5	954.0
42.5°	811.6	824.1	859.7	895.3	905.9
45°	765.3	776.0	809.8	843.6	854.3
47.5°	715.5	727.9	760.0	788.5	800.9
50°	665.7	678.1	708.4	735.1	745.7
52.5°	617.6	624.7	653.2	678.1	690.6
55°	564.2	573.1	596.2	621.2	628.3
57.5°	512.6	517.9	541.1	562.4	573.1
60°	459.2	462.8	484.1	500.1	512.6
62.5°	409.4	409.4	425.4	443.2	450.3
65°	354.2	354.2	370.2	386.2	391.6
67.5°	300.8	304.4	315.0	327.5	331.0
70°	251.0	251.0	261.6	270.5	272.3
72.5°	206.5	204.7	210.0	217.1	220.7
75°	162.0	158.4	165.5	169.1	172.6
77.5°	122.8	121.0	124.6	128.1	128.1
80°	87.2	85.4	89.0	89.0	90.8
82.5°	57.0	58.7	58.7	57.0	55.2
85°	32.0	32.0	30.3	28.5	28.5
87.5°	10.7	10.7	10.7	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)