

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 26353

Luminaire Tested: **I2-WD-2T8-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26353
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WD-2T8-1C-UNV-04
Description: WITH WHITE INTERIOR AND WHITE PLASTIC LENS OVER WHITE PERF

Light Source: TWO SYLVANIA 32 WATT T8 LAMPS
FO32/835/ECO. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5241.0 lumens
Efficiency: 88.8%
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Indirect

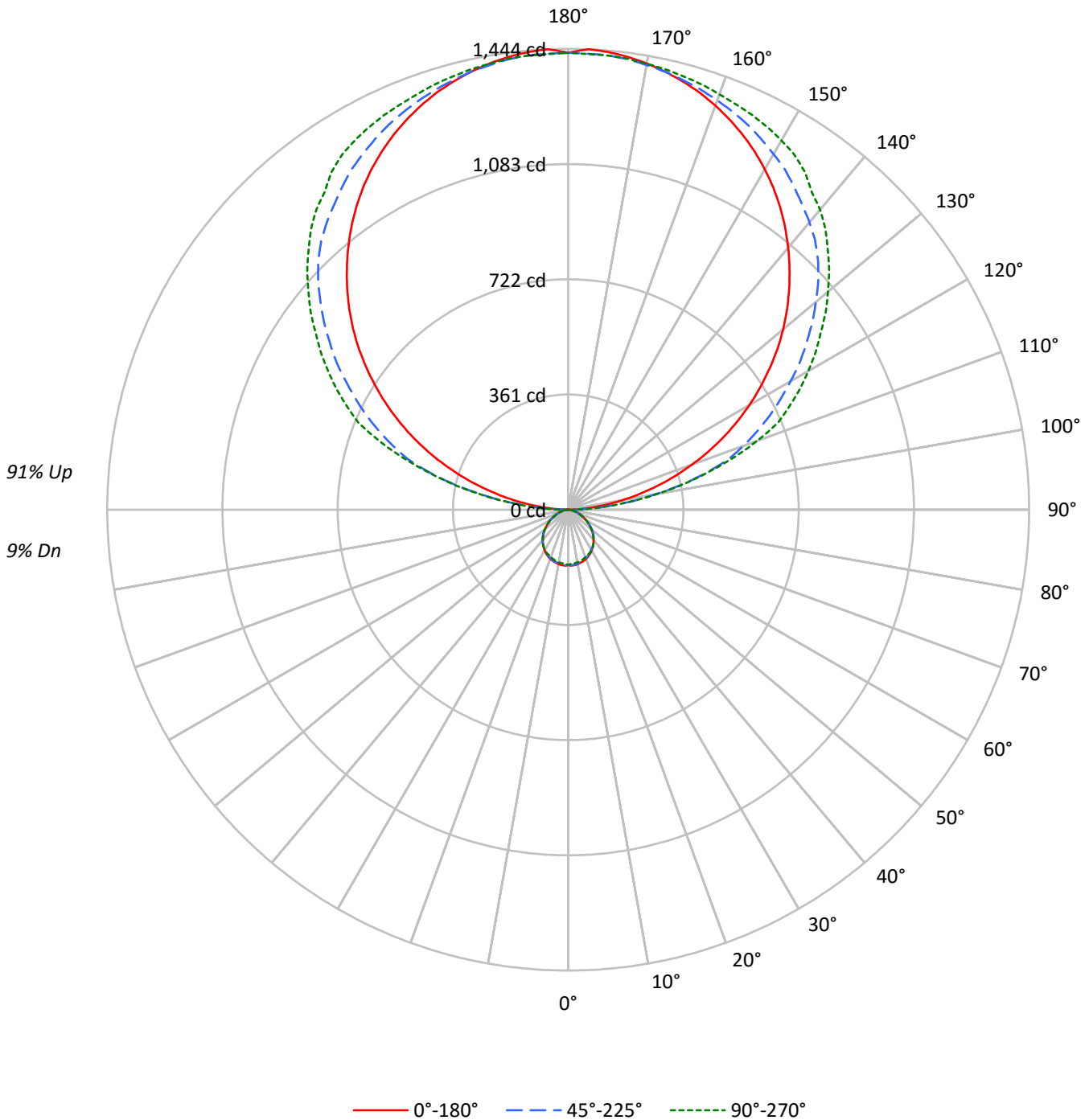
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	86	86	86	75	75	75	75	54	54	54		34	34	34		16	16	16	8
1	79	75	72	69	68	65	63	60	47	45	44		30	29	28		14	14	14	7
2	72	66	60	56	62	57	53	49	41	38	36		26	25	24		13	12	11	6
3	65	57	51	47	56	50	45	41	36	33	30		23	21	20		11	10	10	5
4	60	51	44	39	51	44	39	35	32	28	26		21	19	17		10	9	8	4
5	54	45	38	33	47	39	34	29	28	25	22		18	16	14		9	8	7	4
6	50	40	33	29	43	35	29	25	25	22	19		16	14	13		8	7	6	3
7	46	36	29	25	40	31	26	22	23	19	16		15	13	11		7	6	6	3
8	43	32	26	22	37	28	23	19	21	17	14		13	11	10		7	6	5	2
9	39	29	23	19	34	26	20	17	19	15	13		12	10	8		6	5	4	2
10	37	27	21	17	32	23	18	15	17	14	11		11	9	8		6	5	4	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1638	1638	1638
5°	1663	1653	1606
10°	1660	1647	1610
15°	1656	1641	1605
20°	1648	1627	1589
25°	1633	1608	1597
30°	1609	1580	1600
35°	1574	1573	1571
40°	1527	1544	1531
45°	1470	1495	1476
50°	1398	1423	1401
55°	1308	1334	1300
60°	1205	1213	1185
65°	1099	1077	1066
70°	1012	924	935
75°	1020	782	804
80°	964	643	670
85°	684	575	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.5	0.3	0.3
10°-20°	47.2	0.9	0.8
20°-30°	71.2	1.4	1.2
30°-40°	85.1	1.6	1.4
40°-50°	85.1	1.6	1.4
50°-60°	71.4	1.4	1.2
60°-70°	48.0	0.9	0.8
70°-80°	23.9	0.5	0.4
80°-90°	7.0	0.1	0.1
90°-100°	130.7	2.5	2.2
100°-110°	436.7	8.3	7.4
110°-120°	672.2	12.8	11.4
120°-130°	800.1	15.3	13.6
130°-140°	834.9	15.9	14.2
140°-150°	768.4	14.7	13.0
150°-160°	612.9	11.7	10.4
160°-170°	393.7	7.5	6.7
170°-180°	135.9	2.6	2.3
0°-30°	134.9	2.6	2.3
0°-40°	220.0	4.2	3.7
0°-60°	376.5	7.2	6.4
0°-90°	455.4	8.7	7.7
90°-120°	1239.6	23.7	21.0
90°-150°	3643.1	69.5	61.7
90°-180°	4786.0	91.3	81.1
0°-180°	5241.0	100.0	88.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	173	173	173	173	173	
5°	175	174	174	174	169	17
15°	169	168	168	167	164	48
25°	156	155	154	154	153	72
35°	136	135	136	138	136	85
45°	110	108	112	112	110	85
55°	79	80	81	80	79	71
65°	49	48	48	49	48	49
75°	28	20	21	23	22	29
85°	6	5	5	6	5	8
90°	0	3	4	7	8	3
95°	67	110	119	123	123	77
105°	290	384	449	456	452	307
115°	536	627	696	751	764	529
125°	770	845	911	953	965	688
135°	979	1022	1106	1139	1150	755
145°	1157	1177	1234	1279	1292	724
155°	1295	1301	1331	1351	1364	597
165°	1389	1384	1393	1398	1404	392
175°	1440	1427	1429	1425	1429	137
180°	1432	1432	1432	1432	1432	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	173.1	173.1	173.1	173.1	173.1
2.5°	175.7	174.6	174.3	174.2	170.3
5°	175.1	174.0	174.0	173.5	169.1
7.5°	174.6	173.4	173.3	172.3	168.6
10°	172.8	171.9	171.4	171.0	167.6
12.5°	171.1	170.2	169.5	169.4	166.1
15°	169.1	168.0	167.5	167.1	163.9
17.5°	166.7	165.4	164.9	163.9	161.2
20°	163.7	162.5	161.6	160.5	157.8
22.5°	160.3	159.2	158.1	157.0	154.9
25°	156.4	155.3	154.0	154.3	153.0
27.5°	152.1	151.0	149.4	151.7	150.4
30°	147.3	146.1	144.6	148.2	146.5
32.5°	142.0	140.8	140.5	143.3	141.5
35°	136.3	135.3	136.2	137.8	136.0
37.5°	130.2	129.1	131.0	131.9	130.3
40°	123.6	122.5	125.0	125.9	124.0
42.5°	116.9	115.5	118.4	119.1	117.4
45°	109.9	108.1	111.7	111.9	110.3
47.5°	102.5	101.2	104.4	104.5	102.9
50°	95.0	94.4	96.7	96.6	95.2
52.5°	87.2	87.3	88.8	88.5	87.0
55°	79.3	79.8	80.9	80.2	78.8
57.5°	71.5	71.8	72.4	72.0	70.7
60°	63.7	63.7	64.1	64.3	62.6
62.5°	56.1	55.9	56.1	56.3	55.1
65°	49.1	48.0	48.1	48.8	47.6
67.5°	42.2	40.3	40.6	41.5	40.5
70°	36.6	33.0	33.4	34.6	33.8
72.5°	32.1	26.1	27.2	28.4	27.6
75°	27.9	20.4	21.4	22.6	22.0
77.5°	23.1	15.4	16.2	17.3	16.8
80°	17.7	11.0	11.8	12.8	12.3
82.5°	11.8	7.8	8.0	8.7	8.4
85°	6.3	5.2	5.3	5.5	5.2
87.5°	2.3	3.7	2.9	3.1	2.8
90°	0.0	2.8	3.6	6.6	7.8
92.5°	23.2	44.3	52.9	58.3	59.7
95°	67.2	110.1	119.2	122.9	122.8
97.5°	118.0	186.9	199.5	200.1	200.6
100°	173.0	261.7	277.3	280.5	281.6
102.5°	230.0	324.7	365.2	370.4	370.8
105°	289.5	383.5	448.6	456.4	452.4
107.5°	350.9	442.4	526.1	546.3	544.0
110°	412.6	503.5	583.1	625.2	629.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	474.2	565.0	639.8	695.8	710.9
115°	535.7	626.6	695.8	750.6	763.6
117.5°	596.1	687.1	749.6	801.7	817.9
120°	655.0	744.1	804.2	853.4	868.1
122.5°	713.0	797.4	860.5	903.4	919.3
125°	769.5	844.8	911.2	953.3	965.3
127.5°	825.5	891.6	963.8	1002.0	1016.4
130°	878.9	937.4	1012.7	1049.1	1062.2
132.5°	929.6	981.0	1062.5	1097.1	1108.6
135°	979.0	1022.4	1106.5	1138.9	1150.1
137.5°	1026.1	1058.9	1144.5	1178.1	1192.3
140°	1071.9	1097.2	1175.7	1213.6	1227.4
142.5°	1115.8	1136.8	1204.3	1245.2	1253.5
145°	1157.4	1177.3	1234.1	1279.4	1292.4
147.5°	1196.3	1213.1	1263.6	1303.1	1318.7
150°	1231.9	1245.4	1286.7	1323.3	1336.3
152.5°	1265.1	1274.1	1309.5	1337.5	1351.2
155°	1295.3	1300.9	1331.1	1351.3	1364.2
157.5°	1322.9	1324.4	1348.6	1362.7	1374.3
160°	1348.1	1345.3	1365.3	1377.5	1384.9
162.5°	1370.1	1365.3	1380.2	1389.3	1396.4
165°	1388.9	1383.9	1393.2	1397.5	1404.5
167.5°	1405.4	1399.0	1405.4	1405.2	1413.0
170°	1419.8	1411.5	1414.8	1412.0	1418.9
172.5°	1431.4	1421.1	1423.7	1419.8	1425.4
175°	1439.6	1426.9	1428.9	1425.3	1428.7
177.5°	1444.5	1429.9	1430.3	1424.6	1428.8
180°	1431.6	1431.6	1431.6	1431.6	1431.6

(END OF REPORT)