

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: 16854

Luminaire Tested: **AB-WO-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 16854
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AB-WO-3T8
Description: CORELITE - SUSPENDED DIRECT/INDIRECT LUMINAIRE

WITH WHITE LENS OVER TWO ROWS OF RECTANGULAR APERTURES

Light Source: THREE PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: ONE SYL. QT1 & ONE QT2X32/120 IS-SC BALLASTS OPERATING AT 120 VAC AND 94 WATTS

Summary

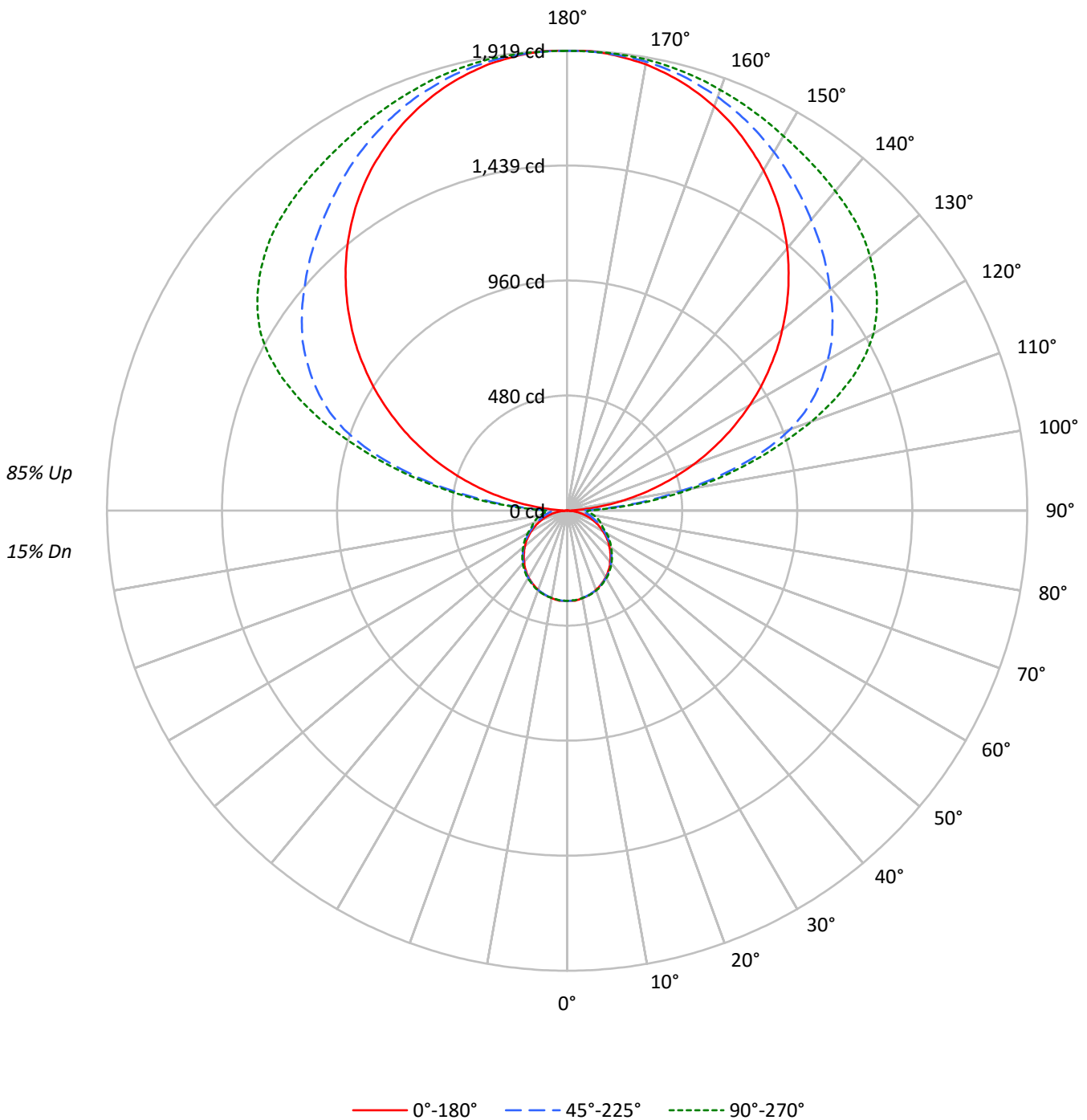
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 8173.8 lumens
Efficiency: 90.8%
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: Semi-Indirect

Input Watts (W): 94
Input Voltage (V): NR
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	90	90	90	90	79	79	79	79	58	58	58	39	39	39	22	22	22	13
1	81	77	74	71	71	68	65	63	50	48	47	34	33	32	19	18	18	11
2	74	67	62	58	64	59	55	51	44	41	38	29	28	26	16	15	15	9
3	67	59	53	48	59	52	47	42	38	35	32	26	24	22	14	13	12	7
4	61	52	45	40	53	46	40	36	34	30	27	23	20	19	13	11	10	6
5	56	46	39	34	49	41	35	30	30	26	23	20	18	16	11	10	9	5
6	52	41	34	29	45	36	30	26	27	23	20	18	16	14	10	9	8	5
7	47	37	30	25	41	33	27	23	24	20	17	16	14	12	9	8	7	4
8	44	33	27	22	38	29	24	20	22	18	15	15	12	11	8	7	6	4
9	41	30	24	19	36	27	21	17	20	16	13	14	11	9	8	6	5	3
10	38	27	21	17	33	24	19	15	18	14	12	13	10	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1352	1352	1352
5°	1352	1319	1313
10°	1335	1283	1274
15°	1327	1252	1242
20°	1313	1222	1209
25°	1299	1187	1170
30°	1286	1155	1135
35°	1265	1116	1094
40°	1239	1077	1053
45°	1216	1035	1007
50°	1188	985	957
55°	1161	940	912
60°	1118	883	863
65°	1074	831	809
70°	1010	764	813
75°	916	728	815
80°	763	717	802
85°	463	696	796



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.6	0.4	0.4
10°-20°	102.4	1.3	1.1
20°-30°	156.4	1.9	1.7
30°-40°	190.7	2.3	2.1
40°-50°	200.8	2.5	2.2
50°-60°	187.3	2.3	2.1
60°-70°	153.9	1.9	1.7
70°-80°	113.2	1.4	1.3
80°-90°	71.8	0.9	0.8
90°-100°	251.8	3.1	2.8
100°-110°	726.8	8.9	8.1
110°-120°	1062.5	13.0	11.8
120°-130°	1184.8	14.5	13.2
130°-140°	1163.9	14.2	12.9
140°-150°	1038.4	12.7	11.5
150°-160°	822.5	10.1	9.1
160°-170°	528.8	6.5	5.9
170°-180°	182.1	2.2	2.0
0°-30°	294.4	3.6	3.3
0°-40°	485.1	5.9	5.4
0°-60°	873.3	10.7	9.7
0°-90°	1212.2	14.8	13.5
90°-120°	2041.2	25.0	22.7
90°-150°	5428.2	66.4	60.3
90°-180°	6962.0	85.2	77.4
0°-180°	8173.8	100.0	90.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	377	374	375	375	375	36
15°	363	362	362	364	364	102
25°	338	337	339	341	342	156
35°	302	302	305	310	308	189
45°	255	257	261	264	265	197
55°	202	206	210	213	215	181
65°	143	147	157	162	164	141
75°	82	89	107	125	132	86
85°	19	42	71	89	93	22
90°	0	30	63	79	88	4
95°	80	195	238	253	267	98
105°	394	616	765	789	808	416
115°	722	876	1140	1277	1312	713
125°	1029	1108	1351	1510	1576	920
135°	1304	1365	1510	1649	1702	1006
145°	1540	1590	1657	1743	1772	963
155°	1723	1744	1785	1819	1838	794
165°	1849	1855	1875	1883	1892	522
175°	1913	1910	1914	1912	1916	182
180°	1917	1917	1917	1917	1917	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	376.9	376.9	376.9	376.9	376.9
2.5°	376.6	375.1	376.6	377.4	375.1
5°	377.4	374.2	375.1	374.7	375.1
7.5°	374.6	372.3	373.3	372.8	372.3
10°	370.6	370.1	369.6	370.1	370.1
12.5°	367.3	366.8	366.3	368.2	367.3
15°	363.2	361.8	362.3	363.7	364.2
17.5°	358.1	356.0	357.2	358.6	360.0
20°	351.7	351.3	352.7	352.7	355.0
22.5°	345.3	344.5	346.2	347.6	349.0
25°	337.6	336.7	339.0	341.2	341.6
27.5°	329.8	328.0	332.0	333.0	333.3
30°	321.6	321.1	323.7	325.1	326.6
32.5°	312.0	311.0	315.2	316.6	318.3
35°	301.5	301.8	304.6	309.7	308.2
37.5°	291.7	291.0	294.6	296.8	298.7
40°	278.4	280.3	284.0	286.3	287.7
42.5°	267.4	268.3	273.9	276.7	276.2
45°	254.7	256.9	261.1	263.8	264.7
47.5°	242.7	244.1	249.7	251.4	251.9
50°	228.7	229.9	235.4	237.7	239.6
52.5°	216.7	218.6	222.7	227.2	228.2
55°	202.1	205.7	210.3	213.1	215.3
57.5°	187.8	191.6	195.6	202.1	204.8
60°	172.7	177.3	182.7	189.2	189.6
62.5°	157.2	163.5	167.2	175.9	175.0
65°	143.4	147.0	156.7	162.5	163.5
67.5°	127.4	133.8	143.4	150.2	156.2
70°	112.8	118.7	128.8	141.5	148.4
72.5°	98.0	102.2	117.3	132.8	140.7
75°	81.5	89.3	107.3	125.0	131.9
77.5°	66.9	75.1	99.4	114.5	123.2
80°	50.0	64.1	89.8	106.3	112.2
82.5°	34.8	52.8	80.6	97.0	104.4
85°	19.3	42.1	71.0	88.9	93.0
87.5°	4.1	33.5	61.0	78.3	82.9
90°	0.5	30.0	62.9	79.1	88.0
92.5°	25.1	89.4	125.9	139.7	152.2
95°	79.8	194.7	238.2	253.3	266.6
97.5°	153.0	317.0	365.1	382.9	395.2
100°	229.9	465.7	497.4	559.3	529.4
102.5°	312.8	512.1	634.3	622.4	669.2
105°	393.5	615.5	765.3	788.7	807.5
107.5°	475.4	689.8	886.7	935.2	945.9
110°	560.1	756.1	990.1	1063.0	1084.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	640.3	818.8	1072.2	1183.9	1204.6
115°	722.3	875.7	1139.9	1276.8	1311.7
117.5°	800.2	940.8	1199.9	1364.0	1402.0
120°	878.9	1001.1	1255.5	1425.8	1475.3
122.5°	955.9	1079.0	1307.6	1489.0	1530.7
125°	1028.8	1107.9	1351.1	1509.5	1576.4
127.5°	1102.4	1186.2	1393.2	1560.9	1615.8
130°	1170.7	1246.2	1431.8	1593.8	1649.3
132.5°	1238.5	1305.8	1471.5	1623.2	1678.9
135°	1303.6	1365.2	1510.0	1648.8	1702.5
137.5°	1367.1	1421.3	1547.5	1671.7	1721.7
140°	1428.0	1475.8	1583.3	1695.1	1739.5
142.5°	1485.3	1527.4	1620.1	1715.7	1756.5
145°	1540.3	1589.7	1656.9	1742.7	1772.5
147.5°	1590.7	1610.8	1692.8	1751.8	1788.0
150°	1638.8	1667.2	1725.7	1777.5	1804.1
152.5°	1680.8	1706.1	1756.5	1799.1	1821.5
155°	1722.6	1743.6	1785.4	1819.1	1837.5
157.5°	1760.1	1777.5	1811.5	1838.0	1853.0
160°	1793.6	1805.0	1836.1	1855.4	1866.7
162.5°	1822.9	1832.9	1855.0	1871.0	1881.5
165°	1849.4	1855.4	1875.1	1882.9	1892.5
167.5°	1871.0	1878.8	1888.9	1897.0	1902.1
170°	1889.4	1886.1	1900.8	1901.1	1909.9
172.5°	1902.5	1901.6	1908.9	1908.5	1913.9
175°	1913.0	1909.8	1913.5	1912.5	1916.3
177.5°	1919.0	1914.5	1917.1	1913.5	1916.6
180°	1917.4	1917.4	1917.4	1917.4	1917.4

(END OF REPORT)