

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: 15716

Luminaire Tested: **IP-WP-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15716
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IP-WP-3T8
Description: CORELITE 3 LAMP T8 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF

WITH WHITE INTERIOR AND WHITE LENS OVER PERFORATIONS

Light Source: THREE PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: ONE MAGNETEK B332IUNV HP--B BALLAST OPERATING AT 120 VAC AND 90 WATTS

Summary

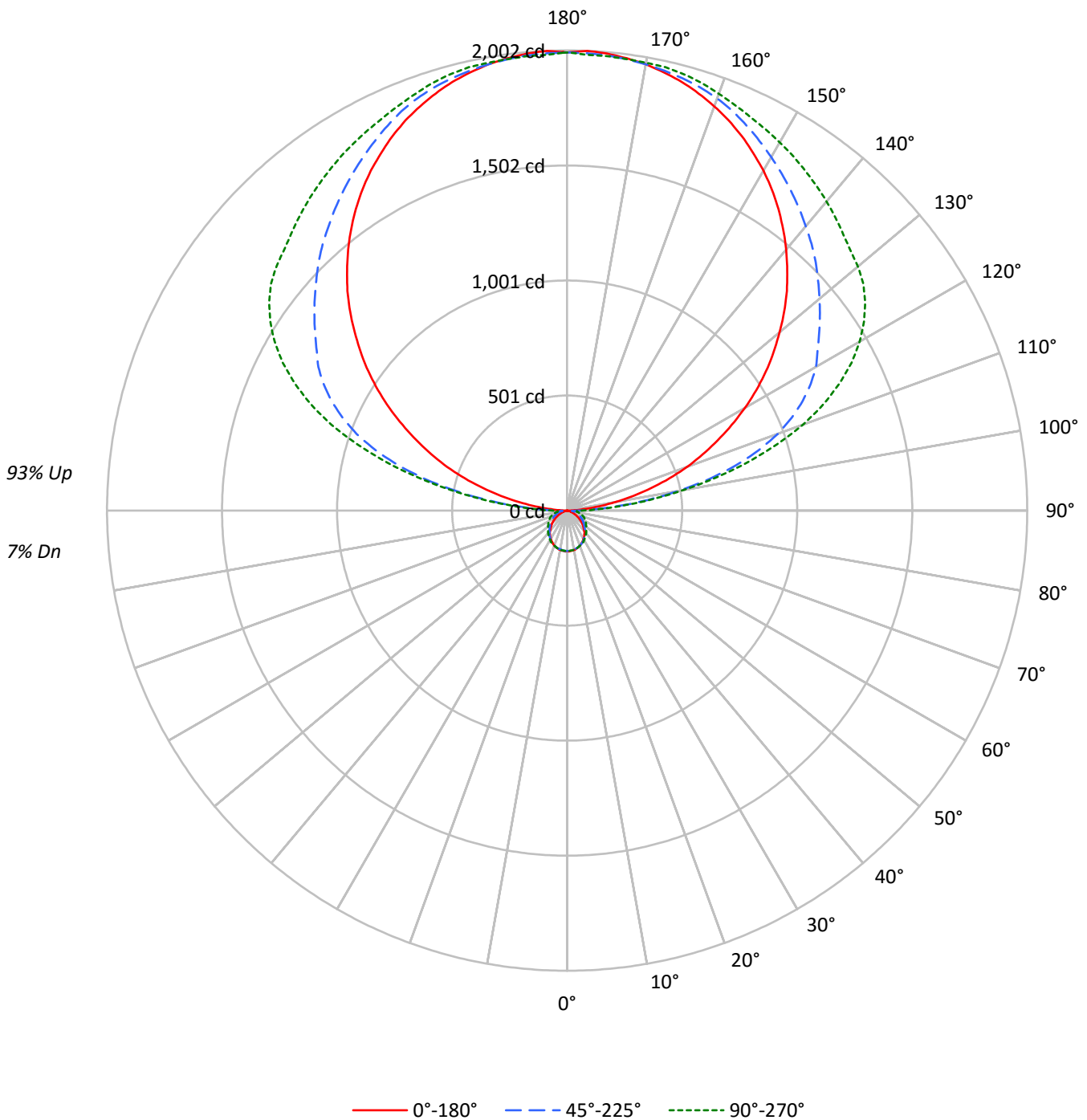
Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 7547.6 lumens
Efficiency: 85.3%
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 90
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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CATALOG NUMBER: IP-WP-3T8

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	83	83	83	83	71	71	71	71	51	51	51	32	32	32	14	14	14	6
1	75	72	68	66	65	62	59	57	44	42	41	27	27	26	12	12	12	5
2	68	62	57	53	59	54	50	47	38	36	34	24	23	21	11	10	10	4
3	62	55	49	44	53	47	43	39	34	31	28	21	19	18	9	9	8	3
4	57	48	42	37	49	42	37	33	30	26	24	19	17	15	8	8	7	3
5	52	43	36	31	45	37	32	28	26	23	20	17	15	13	7	7	6	2
6	48	38	32	27	41	33	28	24	24	20	17	15	13	11	7	6	5	2
7	44	34	28	23	38	30	24	21	21	18	15	13	11	10	6	5	5	2
8	40	31	25	20	35	27	22	18	19	16	13	12	10	9	6	5	4	2
9	37	28	22	18	32	24	19	16	17	14	12	11	9	8	5	4	4	1
10	35	25	20	16	30	22	17	14	16	13	10	10	8	7	5	4	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	632	632	632
5°	616	617	625
10°	599	590	624
15°	575	581	616
20°	554	559	608
25°	523	541	603
30°	492	518	589
35°	460	490	581
40°	424	452	570
45°	382	427	556
50°	337	404	565
55°	289	379	576
60°	234	360	597
65°	175	340	627
70°	126	310	671
75°	93	313	726
80°	48	283	792
85°	9	230	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	16.6	0.2	0.2
10°-20°	47.3	0.6	0.5
20°-30°	70.9	0.9	0.8
30°-40°	83.3	1.1	0.9
40°-50°	83.6	1.1	0.9
50°-60°	75.4	1.0	0.9
60°-70°	61.5	0.8	0.7
70°-80°	44.6	0.6	0.5
80°-90°	28.9	0.4	0.3
90°-100°	232.9	3.1	2.6
100°-110°	718.7	9.5	8.1
110°-120°	1055.4	14.0	11.9
120°-130°	1190.0	15.8	13.4
130°-140°	1180.4	15.6	13.3
140°-150°	1067.4	14.1	12.1
150°-160°	851.7	11.3	9.6
160°-170°	549.8	7.3	6.2
170°-180°	189.2	2.5	2.1
0°-30°	134.8	1.8	1.5
0°-40°	218.0	2.9	2.5
0°-60°	377.0	5.0	4.3
0°-90°	512.1	6.8	5.8
90°-120°	2007.0	26.6	22.7
90°-150°	5444.8	72.1	61.5
90°-180°	7036.0	93.2	79.5
0°-180°	7547.6	100.0	85.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	176	176	176	176	176	
5°	176	175	176	174	175	17
15°	169	166	168	167	169	48
25°	152	152	154	154	157	70
35°	130	129	134	136	138	81
45°	100	102	108	115	116	77
55°	68	72	85	96	100	60
65°	35	46	64	78	84	36
75°	15	25	46	60	65	15
85°	1	10	24	36	40	2
90°	0	15	43	55	66	4
95°	70	180	216	229	236	89
105°	378	599	760	804	813	402
115°	722	868	1132	1266	1306	716
125°	1056	1127	1338	1512	1583	942
135°	1352	1407	1529	1651	1699	1041
145°	1602	1656	1698	1778	1805	1002
155°	1798	1818	1848	1871	1888	828
165°	1930	1935	1946	1957	1965	545
175°	1996	1994	1987	1979	1984	190
180°	1993	1993	1993	1993	1993	



TEST NUMBER: 15716

CATALOG NUMBER: IP-WP-3T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	176.1	176.1	176.1	176.1	176.1
2.5°	178.3	176.2	176.0	174.2	175.6
5°	176.0	174.7	175.5	173.7	174.6
7.5°	175.5	173.7	173.2	173.2	174.2
10°	174.1	171.9	170.0	171.4	173.2
12.5°	172.3	169.0	170.0	170.0	170.5
15°	168.6	166.1	168.1	166.7	168.6
17.5°	166.1	164.3	165.2	164.7	165.2
20°	162.8	161.5	161.4	162.4	162.8
22.5°	158.3	156.9	158.6	158.7	159.6
25°	152.5	151.7	154.4	154.1	156.8
27.5°	148.4	146.5	150.2	150.2	153.2
30°	141.7	141.7	145.1	145.6	147.4
32.5°	137.1	136.1	139.0	140.4	143.6
35°	129.5	129.1	133.8	135.6	138.5
37.5°	123.9	122.8	127.2	130.9	133.2
40°	115.9	116.3	119.2	125.8	128.1
42.5°	106.4	109.3	115.0	119.6	123.5
45°	100.3	101.8	107.8	114.9	116.4
47.5°	91.9	94.7	102.7	108.7	113.1
50°	84.3	85.7	96.6	103.6	108.8
52.5°	76.2	79.0	91.4	100.7	103.6
55°	68.3	72.1	84.8	95.6	100.3
57.5°	58.5	65.5	80.0	90.8	96.1
60°	51.4	58.8	74.4	86.2	92.2
62.5°	43.4	52.8	69.2	82.9	87.6
65°	35.3	46.2	64.1	77.7	83.8
67.5°	28.8	41.0	59.0	73.0	79.5
70°	23.1	35.8	52.3	68.9	74.9
72.5°	18.0	29.8	51.4	64.1	69.2
75°	15.1	24.9	46.2	59.9	64.6
77.5°	10.4	20.8	40.1	52.8	58.1
80°	6.7	18.0	35.5	48.6	51.9
82.5°	2.4	14.6	29.8	42.4	45.2
85°	1.0	10.0	23.5	35.8	40.5
87.5°	0.5	7.2	22.2	33.4	43.8
90°	0.5	14.8	42.9	54.9	66.0
92.5°	25.0	66.4	107.4	119.6	129.5
95°	70.3	179.9	216.5	229.2	235.9
97.5°	138.0	305.0	353.6	367.1	369.6
100°	211.4	440.1	492.4	548.0	514.0
102.5°	295.2	487.6	631.2	619.0	664.2
105°	378.5	599.2	759.7	804.5	812.9
107.5°	466.6	672.2	874.0	942.4	956.0
110°	555.5	734.4	974.4	1065.8	1091.6



TEST NUMBER: 15716
 CATALOG NUMBER: IP-WP-3T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	638.8	800.3	1058.2	1171.5	1205.6
115°	722.2	868.0	1131.6	1265.7	1306.2
117.5°	807.7	936.8	1195.2	1350.5	1395.1
120°	892.9	1006.9	1250.3	1420.6	1470.0
122.5°	975.8	1095.5	1292.1	1489.3	1531.2
125°	1055.7	1126.9	1337.8	1511.9	1583.0
127.5°	1132.6	1212.1	1386.3	1560.9	1623.5
130°	1205.6	1274.2	1433.4	1584.9	1651.7
132.5°	1280.9	1345.8	1480.8	1617.4	1672.4
135°	1351.8	1406.6	1528.9	1650.8	1699.3
137.5°	1417.3	1468.6	1573.6	1680.9	1728.4
140°	1482.8	1530.3	1615.0	1712.9	1755.8
142.5°	1543.9	1588.1	1657.8	1743.1	1781.3
145°	1602.3	1656.5	1697.9	1777.8	1805.2
147.5°	1657.0	1680.4	1737.3	1790.1	1829.2
150°	1708.1	1738.0	1775.6	1822.6	1849.5
152.5°	1753.4	1780.7	1812.7	1846.2	1869.7
155°	1798.1	1818.3	1848.1	1871.1	1888.4
157.5°	1837.2	1854.3	1881.0	1895.1	1909.6
160°	1871.6	1884.7	1908.4	1917.7	1929.4
162.5°	1902.6	1911.2	1929.6	1939.4	1950.2
165°	1930.5	1935.2	1946.4	1956.8	1965.1
167.5°	1952.0	1961.0	1960.0	1966.7	1975.6
170°	1971.3	1967.1	1971.8	1970.8	1978.4
172.5°	1984.9	1984.9	1980.7	1977.4	1981.2
175°	1995.9	1994.4	1987.3	1979.4	1984.4
177.5°	2001.9	1999.1	1991.1	1982.2	1984.6
180°	1993.1	1993.1	1993.1	1993.1	1993.1

(END OF REPORT)