

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: 15717

Luminaire Tested: **IP-SP-2T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15717
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IP-SP-2T8
Description: CORELITE 2 LAMP T8 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF
WITH WHITE INTERIOR, SPECULAR REFLECTORS AND WHITE LENS OVER PERFORATIONS
Light Source: TWO PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 2950 LMS.

Ballast/Driver: ONE MAGNETEK B232IUNV HP--B BALLAST OPERATING AT 120 VAC AND 60 WATTS

Summary

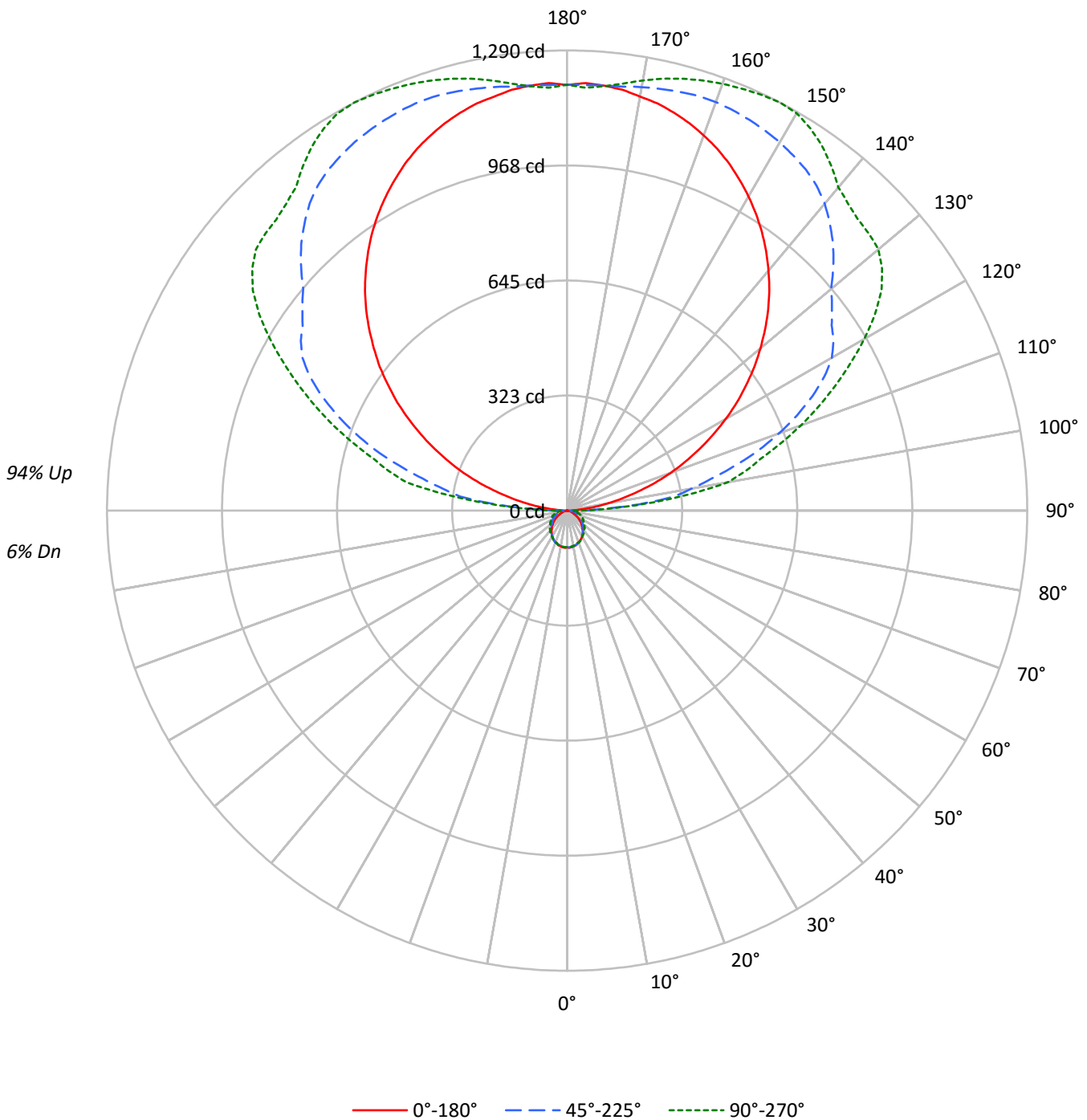
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4943.3 lumens
Efficiency: 83.8%
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 60
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



TEST NUMBER: 15717
CATALOG NUMBER: IP-SP-2T8

Luminous Intensity Polar Plot





TEST NUMBER: 15717
 CATALOG NUMBER: IP-SP-2T8

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	81	81	81	81	70	70	70	70	49	49	49	30	30	30	13	13	13	5
1	74	70	67	64	63	61	58	56	43	41	40	26	26	25	11	11	11	4
2	67	61	56	52	58	53	49	46	37	35	33	23	22	21	10	9	9	3
3	61	54	48	43	52	46	42	38	33	30	28	20	19	17	9	8	8	3
4	56	47	41	36	48	41	36	32	29	26	23	18	16	15	8	7	7	2
5	51	42	36	31	44	36	31	27	26	22	20	16	14	13	7	6	6	2
6	47	37	31	26	40	32	27	23	23	20	17	14	12	11	6	5	5	2
7	43	33	27	23	37	29	24	20	21	17	15	13	11	9	6	5	4	2
8	40	30	24	20	34	26	21	18	19	15	13	12	10	8	5	4	4	1
9	37	27	21	17	32	24	19	15	17	14	11	11	9	7	5	4	3	1
10	34	25	19	15	29	22	17	14	16	12	10	10	8	6	4	4	3	1

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	370	370	370
5°	364	362	367
10°	348	354	362
15°	341	342	358
20°	321	332	355
25°	307	314	353
30°	291	297	339
35°	272	284	334
40°	245	267	333
45°	223	254	331
50°	197	235	319
55°	172	223	331
60°	137	215	341
65°	103	197	358
70°	79	186	384
75°	57	172	396
80°	27	155	416
85°	4	124	528



TEST NUMBER: 15717
 CATALOG NUMBER: IP-SP-2T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	9.8	0.2	0.2
10°-20°	27.7	0.6	0.5
20°-30°	41.4	0.8	0.7
30°-40°	48.5	1.0	0.8
40°-50°	48.9	1.0	0.8
50°-60°	44.1	0.9	0.7
60°-70°	35.6	0.7	0.6
70°-80°	25.3	0.5	0.4
80°-90°	14.8	0.3	0.3
90°-100°	187.5	3.8	3.2
100°-110°	476.0	9.6	8.1
110°-120°	685.5	13.9	11.6
120°-130°	795.0	16.1	13.5
130°-140°	785.9	15.9	13.3
140°-150°	709.3	14.3	12.0
150°-160°	551.4	11.2	9.3
160°-170°	342.1	6.9	5.8
170°-180°	114.3	2.3	1.9
0°-30°	78.9	1.6	1.3
0°-40°	127.4	2.6	2.2
0°-60°	220.5	4.5	3.7
0°-90°	296.2	6.0	5.0
90°-120°	1349.0	27.3	22.9
90°-150°	3639.3	73.6	61.7
90°-180°	4647.0	94.0	78.8
0°-180°	4943.3	100.0	83.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	103	103	103	103	103	
5°	104	102	103	102	102	10
15°	100	98	99	98	98	28
25°	90	89	90	90	92	41
35°	77	77	78	79	80	47
45°	58	60	64	66	69	45
55°	40	43	50	57	58	36
65°	21	27	37	45	48	21
75°	9	14	25	34	35	10
85°	0	4	13	18	22	1
90°	0	7	26	26	42	2
95°	39	137	202	210	219	48
105°	206	384	488	545	562	219
115°	410	576	758	817	830	406
125°	612	762	905	1028	1075	548
135°	797	922	1054	1115	1154	614
145°	952	1048	1167	1236	1247	595
155°	1074	1124	1209	1263	1286	495
165°	1155	1171	1216	1242	1253	326
175°	1196	1194	1196	1195	1194	114
180°	1193	1193	1193	1193	1193	



TEST NUMBER: 15717
 CATALOG NUMBER: IP-SP-2T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	103.0	103.0	103.0	103.0	103.0
2.5°	104.5	103.4	103.0	102.9	102.5
5°	104.0	102.5	102.9	102.5	102.5
7.5°	103.4	102.5	102.9	101.6	101.0
10°	101.0	102.5	102.1	100.5	100.5
12.5°	101.0	100.0	99.6	99.6	100.1
15°	100.1	98.1	99.0	98.1	98.1
17.5°	95.6	95.7	96.1	96.6	95.6
20°	94.2	94.6	95.7	95.2	95.2
22.5°	92.6	91.7	93.3	92.8	93.7
25°	89.7	89.3	89.7	89.8	91.7
27.5°	87.3	85.8	85.8	87.8	86.4
30°	83.8	83.4	83.4	85.3	84.9
32.5°	79.6	79.4	80.1	81.6	82.4
35°	76.6	76.8	77.6	79.0	79.6
37.5°	71.3	72.8	73.2	76.2	77.7
40°	66.9	68.8	70.4	73.3	74.8
42.5°	64.0	64.0	67.8	69.3	71.3
45°	58.5	59.6	64.0	66.4	69.4
47.5°	53.2	55.7	59.6	63.6	66.0
50°	49.3	50.4	56.1	60.6	61.4
52.5°	44.5	48.2	51.7	58.1	60.6
55°	40.5	43.0	49.8	56.6	57.7
57.5°	34.6	39.0	46.9	54.2	53.2
60°	30.2	34.6	44.5	49.7	52.6
62.5°	24.0	30.8	40.1	47.3	49.3
65°	20.9	27.3	37.2	45.4	47.8
67.5°	17.4	24.4	33.7	42.0	44.9
70°	14.5	20.4	31.3	39.6	42.9
72.5°	12.1	18.1	28.8	37.2	39.0
75°	9.2	14.5	25.3	33.7	35.2
77.5°	6.8	11.2	22.9	29.7	32.2
80°	3.8	9.2	19.4	25.8	27.3
82.5°	1.4	6.8	15.6	22.4	26.4
85°	0.5	4.4	12.6	18.5	22.0
87.5°	0.5	1.8	9.2	15.6	18.5
90°	0.5	6.8	26.2	26.0	42.2
92.5°	15.6	66.8	92.4	97.2	104.0
95°	39.4	137.2	202.1	210.5	218.8
97.5°	74.2	199.7	303.2	331.6	341.3
100°	113.3	277.8	353.6	439.9	457.0
102.5°	158.8	305.2	415.1	472.6	512.3
105°	205.6	383.8	488.3	545.0	561.7
107.5°	256.9	439.4	562.6	612.9	627.9
110°	308.2	483.4	631.4	681.8	696.9



TEST NUMBER: 15717
CATALOG NUMBER: IP-SP-2T8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	358.9	526.9	697.0	747.7	763.3
115°	409.7	576.2	758.5	816.6	829.8
117.5°	461.9	633.8	812.6	882.1	896.1
120°	513.1	685.1	857.0	945.9	962.1
122.5°	564.5	743.3	885.4	1008.5	1023.1
125°	612.3	762.3	905.4	1028.1	1075.4
127.5°	661.8	811.5	935.8	1069.4	1113.0
130°	707.1	850.2	966.5	1086.1	1138.8
132.5°	752.5	886.9	1011.8	1099.3	1148.2
135°	797.0	921.9	1054.5	1115.4	1153.5
137.5°	839.0	951.4	1090.5	1135.0	1166.2
140°	878.1	983.0	1123.2	1171.1	1183.2
142.5°	916.6	1012.5	1148.7	1204.8	1217.1
145°	952.3	1047.5	1166.7	1236.4	1246.8
147.5°	985.5	1059.8	1179.8	1245.2	1269.8
150°	1016.9	1089.5	1192.2	1259.4	1286.3
152.5°	1046.1	1107.6	1201.2	1263.4	1290.2
155°	1073.8	1123.8	1208.6	1262.8	1286.4
157.5°	1098.3	1137.4	1214.6	1260.6	1280.0
160°	1119.4	1150.2	1218.4	1257.5	1273.2
162.5°	1138.8	1161.8	1219.0	1251.2	1264.3
165°	1155.0	1171.0	1215.5	1242.4	1253.1
167.5°	1169.1	1180.8	1210.7	1226.3	1240.4
170°	1178.4	1183.8	1205.4	1220.4	1224.3
172.5°	1189.6	1191.1	1199.0	1206.2	1207.2
175°	1195.5	1193.6	1196.0	1195.0	1194.0
177.5°	1199.5	1197.0	1194.0	1191.1	1186.3
180°	1193.2	1193.2	1193.2	1193.2	1193.2

(END OF REPORT)