

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: 15718

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 15718
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IP-WP-2T8
Description: CORELITE 2 LAMP T8 DIRECT/INDIRECT LUMINAIRE - IRIIDIUM PERF

WITH WHITE INTERIOR 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

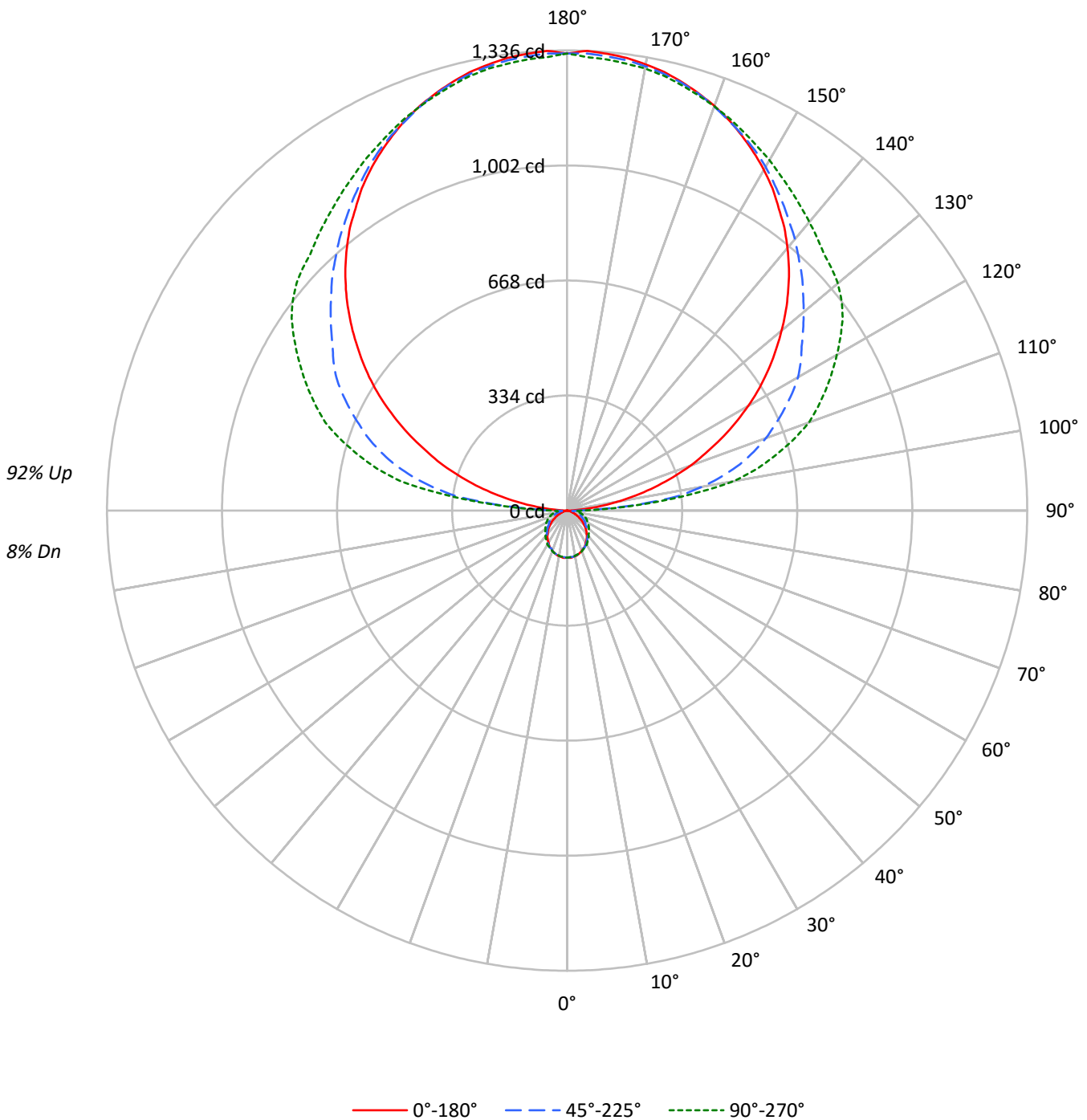
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4996.8 lumens
Efficiency: 84.7%
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.75' x H: 0.25')
CIE Type: Indirect

Input Watts (W): 60
Input Voltage (V): NR
Input Current (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	82	82	82	82	71	71	71	71	51	51	51	32	32	32	15	15	15	7
1	75	71	68	65	65	62	59	57	44	42	41	28	27	26	13	12	12	5
2	68	62	57	53	59	54	50	47	38	36	34	24	23	22	11	11	10	4
3	62	54	49	44	53	47	43	39	34	31	28	21	20	18	10	9	9	4
4	56	48	42	37	49	42	37	33	30	27	24	19	17	15	9	8	7	3
5	52	42	36	31	44	37	32	28	27	23	20	17	15	13	8	7	6	3
6	47	38	31	27	41	33	28	24	24	20	18	15	13	11	7	6	5	2
7	44	34	28	23	38	30	24	21	21	18	15	14	12	10	6	5	5	2
8	40	31	24	20	35	27	22	18	19	16	13	12	10	9	6	5	4	2
9	37	28	22	18	32	24	19	16	18	14	12	11	9	8	5	4	4	2
10	35	25	19	16	30	22	17	14	16	13	10	10	8	7	5	4	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	489	489	489
5°	482	476	483
10°	462	463	480
15°	445	449	473
20°	424	433	467
25°	403	417	458
30°	375	395	457
35°	352	374	439
40°	320	354	434
45°	294	325	432
50°	258	305	429
55°	221	290	435
60°	179	278	449
65°	133	256	472
70°	99	249	489
75°	75	228	532
80°	44	192	587
85°	4	167	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	12.9	0.3	0.2
10°-20°	36.5	0.7	0.6
20°-30°	54.4	1.1	0.9
30°-40°	63.8	1.3	1.1
40°-50°	64.0	1.3	1.1
50°-60°	57.6	1.2	1.0
60°-70°	46.8	0.9	0.8
70°-80°	33.2	0.7	0.6
80°-90°	19.8	0.4	0.3
90°-100°	204.0	4.1	3.5
100°-110°	506.5	10.1	8.6
110°-120°	667.6	13.4	11.3
120°-130°	748.7	15.0	12.7
130°-140°	750.6	15.0	12.7
140°-150°	686.9	13.7	11.6
150°-160°	555.5	11.1	9.4
160°-170°	362.3	7.3	6.1
170°-180°	125.7	2.5	2.1
0°-30°	103.8	2.1	1.8
0°-40°	167.6	3.4	2.8
0°-60°	289.1	5.8	4.9
0°-90°	388.9	7.8	6.6
90°-120°	1378.0	27.6	23.4
90°-150°	3564.3	71.3	60.4
90°-180°	4608.0	92.2	78.1
0°-180°	4996.8	100.0	84.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	136	136	136	136	136	
5°	138	136	135	135	135	13
15°	130	129	130	129	129	37
25°	118	118	119	118	119	54
35°	99	100	102	104	104	62
45°	77	79	82	88	90	59
55°	52	56	65	73	76	46
65°	27	36	48	59	63	28
75°	12	18	34	44	47	13
85°	0	6	17	26	29	2
90°	0	9	31	33	42	3
95°	52	156	214	223	231	63
105°	263	369	520	598	629	278
115°	493	542	695	795	828	488
125°	714	720	831	932	977	637
135°	908	915	964	1025	1054	700
145°	1071	1082	1091	1125	1134	671
155°	1201	1200	1204	1206	1213	554
165°	1288	1285	1285	1277	1280	364
175°	1331	1327	1324	1314	1315	127
180°	1327	1327	1327	1327	1327	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	136.4	136.4	136.4	136.4	136.4
2.5°	137.2	136.2	135.7	135.3	136.2
5°	137.7	136.2	135.3	135.3	134.8
7.5°	135.3	134.4	135.3	134.4	134.4
10°	134.2	133.3	133.3	133.3	133.3
12.5°	132.9	131.8	131.8	131.3	131.3
15°	130.4	128.9	129.8	128.9	129.4
17.5°	127.4	126.5	127.4	127.0	128.4
20°	124.5	124.0	125.0	124.9	125.0
22.5°	120.1	120.6	119.0	122.0	122.6
25°	117.6	117.7	119.2	118.2	119.0
27.5°	113.7	112.8	114.8	115.7	116.1
30°	107.8	109.3	110.8	112.4	114.2
32.5°	104.0	104.0	106.4	108.4	109.3
35°	99.0	100.1	102.1	104.0	104.5
37.5°	94.6	94.6	97.6	99.6	102.1
40°	87.4	89.8	93.2	95.6	97.6
42.5°	82.9	83.4	86.4	91.3	92.2
45°	77.2	79.0	82.0	87.8	90.4
47.5°	70.9	73.8	77.7	83.0	85.8
50°	64.5	66.4	72.8	80.0	82.5
52.5°	58.6	60.5	66.9	76.2	79.6
55°	52.2	56.2	65.0	72.8	75.7
57.5°	44.9	50.8	61.0	69.8	73.2
60°	39.4	45.4	57.6	65.4	69.4
62.5°	33.6	40.5	53.2	62.5	65.4
65°	26.9	36.1	48.2	58.6	63.0
67.5°	23.4	30.8	44.9	56.2	59.0
70°	18.0	26.4	42.0	52.2	54.6
72.5°	14.5	21.8	37.0	48.2	51.3
75°	12.1	18.5	33.7	44.0	47.3
77.5°	8.8	16.1	28.8	40.0	43.4
80°	6.2	12.6	24.0	35.2	38.5
82.5°	2.0	9.3	21.4	30.2	34.2
85°	0.5	6.2	17.0	25.8	28.8
87.5°	0.5	3.3	15.6	20.9	27.3
90°	0.5	9.0	31.4	32.6	41.8
92.5°	17.0	73.3	97.6	104.1	109.3
95°	51.7	156.2	214.4	223.2	231.0
97.5°	96.2	221.3	329.2	354.6	363.8
100°	149.8	285.7	397.0	481.9	492.2
102.5°	204.6	308.1	461.5	519.5	566.5
105°	263.3	369.1	519.5	597.8	629.4
107.5°	320.9	414.1	567.9	661.8	691.0
110°	381.4	456.1	614.3	711.0	747.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	434.6	499.7	653.9	755.0	788.2
115°	492.7	541.9	695.4	794.6	828.3
117.5°	550.3	592.3	736.5	834.6	866.7
120°	606.5	640.2	774.1	873.7	904.3
122.5°	661.8	699.3	804.3	917.1	941.1
125°	713.5	719.9	831.1	931.8	976.7
127.5°	763.3	778.1	863.9	964.5	1004.1
130°	813.1	823.8	896.2	983.9	1026.1
132.5°	861.9	870.7	929.3	1003.1	1041.3
135°	908.3	915.3	964.1	1025.1	1053.9
137.5°	953.3	957.7	994.9	1047.0	1074.3
140°	995.3	997.1	1029.0	1071.0	1093.9
142.5°	1035.8	1035.4	1058.7	1095.8	1113.0
145°	1071.0	1082.2	1091.0	1124.7	1134.0
147.5°	1109.5	1099.8	1121.8	1135.9	1153.4
150°	1142.3	1141.2	1152.4	1162.7	1175.0
152.5°	1172.6	1172.6	1179.9	1184.2	1193.0
155°	1200.8	1200.4	1203.8	1206.3	1212.7
157.5°	1227.2	1225.4	1225.4	1226.3	1232.0
160°	1250.2	1248.2	1248.2	1245.8	1249.2
162.5°	1269.8	1267.8	1268.7	1261.9	1264.3
165°	1287.9	1285.4	1285.4	1277.0	1279.5
167.5°	1303.9	1302.6	1299.0	1293.6	1293.2
170°	1315.2	1308.8	1309.9	1298.2	1303.4
172.5°	1325.4	1320.6	1318.6	1307.9	1308.8
175°	1331.2	1327.4	1323.9	1313.8	1315.1
177.5°	1336.0	1331.2	1327.9	1317.1	1317.6
180°	1326.8	1326.8	1326.8	1326.8	1326.8

(END OF REPORT)