

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: 20546

Luminaire Tested: **IQ-WB-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 20546
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IQ-WB-3T8
Description: DIRECT/INDIRECT SUSPENDED LUMINAIRE WITH WHITE INTERIOR WITH 36 CELL
WHITE PERF LOUVER
Light Source: THREE PHILIPS 32 WATT T8 LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

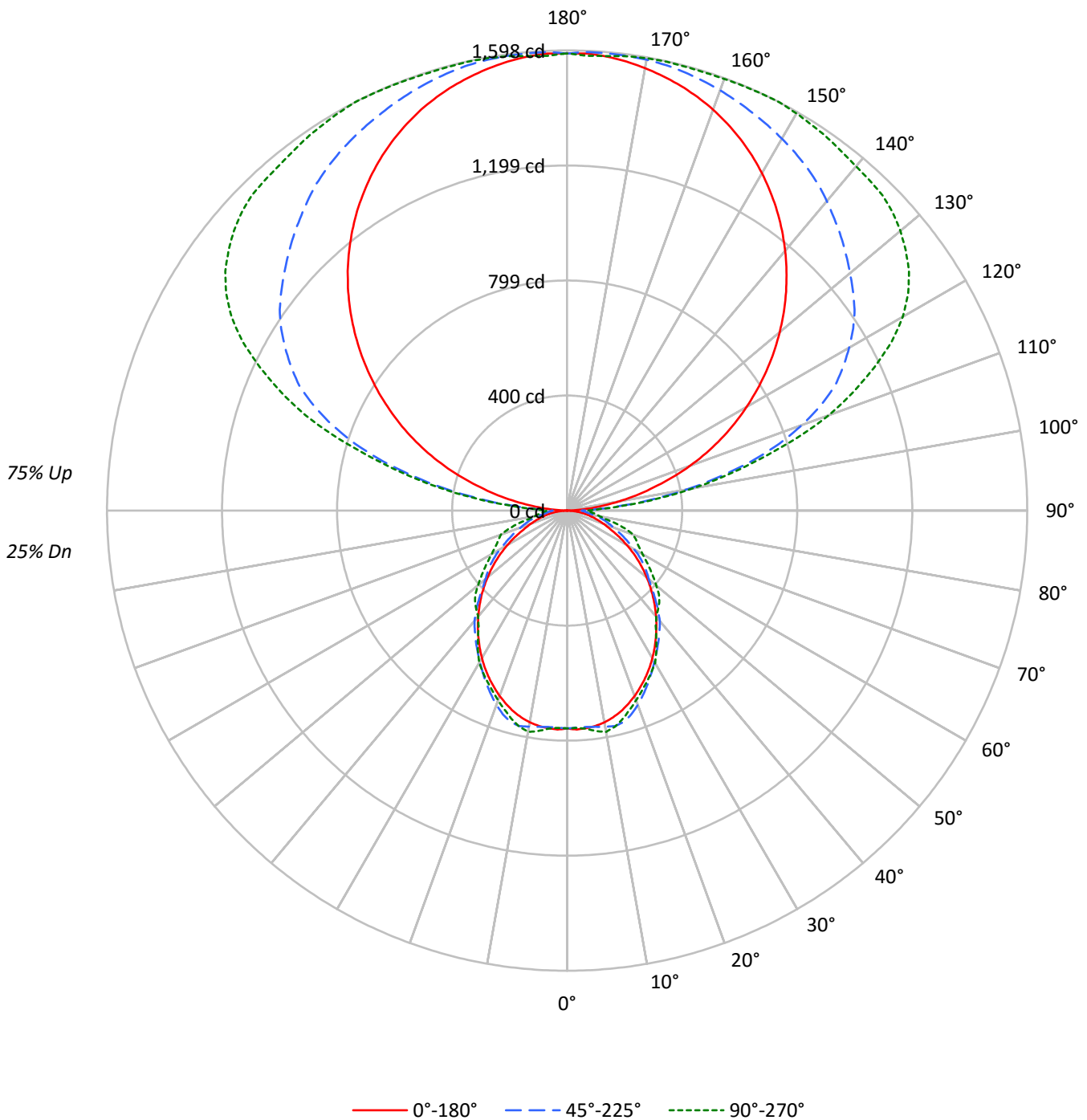
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 8044.0 lumens
Efficiency: 89.4%
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.2 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.32' x L: 3.67' x H: 0.06')
CIE Type: Semi-Indirect

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	80	80	80	80	62	62	62	45	45	45	29	29	29	22
1	82	78	75	72	73	70	67	64	54	52	50	39	38	37	26	25	25	18
2	75	68	63	59	66	61	57	53	47	44	42	34	32	31	23	22	21	15
3	68	60	54	49	60	54	48	44	42	38	35	30	28	26	20	19	17	13
4	62	53	46	41	55	47	42	37	37	33	30	27	24	22	18	16	15	11
5	57	47	40	35	51	42	36	32	33	29	25	24	21	19	16	14	13	10
6	52	42	35	30	46	38	32	27	30	25	22	22	19	17	15	13	12	9
7	48	38	31	26	43	34	28	24	27	22	19	20	17	15	13	12	10	8
8	45	34	28	23	40	31	25	21	24	20	17	18	15	13	12	10	9	7
9	42	31	25	20	37	28	22	19	22	18	15	17	14	12	11	10	8	6
10	39	28	22	18	34	26	20	17	20	16	14	15	12	10	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6932	6932	6932
5°	6970	6853	6881
10°	6929	6918	7032
15°	6817	6945	6759
20°	6643	6652	6400
25°	6437	6285	6093
30°	6204	5922	5835
35°	5943	5615	5331
40°	5670	5337	4971
45°	5374	4890	4938
50°	5045	4501	4706
55°	4684	4287	4410
60°	4273	3941	4187
65°	3776	3585	4156
70°	3437	3294	4316
75°	3154	3132	3688
80°	2850	2776	2939
85°	2321	2729	2994



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	72.4	0.9	0.8
10°-20°	209.1	2.6	2.3
20°-30°	304.0	3.8	3.4
30°-40°	344.3	4.3	3.8
40°-50°	336.1	4.2	3.7
50°-60°	292.3	3.6	3.2
60°-70°	222.4	2.8	2.5
70°-80°	142.8	1.8	1.6
80°-90°	70.3	0.9	0.8
90°-100°	203.0	2.5	2.3
100°-110°	628.8	7.8	7.0
110°-120°	941.6	11.7	10.5
120°-130°	1055.6	13.1	11.7
130°-140°	1025.1	12.7	11.4
140°-150°	900.7	11.2	10.0
150°-160°	700.8	8.7	7.8
160°-170°	443.3	5.5	4.9
170°-180°	151.4	1.9	1.7
0°-30°	585.5	7.3	6.5
0°-40°	929.8	11.6	10.3
0°-60°	1558.2	19.4	17.3
0°-90°	1993.7	24.8	22.2
90°-120°	1773.4	22.0	19.7
90°-150°	4754.8	59.1	52.8
90°-180°	6050.0	75.2	67.2
0°-180°	8044.0	100.0	89.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	759	753	754	759	760	72
15°	722	730	760	754	748	203
25°	641	674	663	658	655	295
35°	537	560	552	553	539	336
45°	421	435	432	439	452	325
55°	300	317	324	342	350	268
65°	180	202	216	248	269	181
75°	94	103	136	168	177	100
85°	26	43	69	84	90	28
90°	0	27	51	66	70	4
95°	67	158	189	199	199	79
105°	312	536	663	690	694	331
115°	590	771	1026	1144	1177	583
125°	844	976	1219	1385	1449	755
135°	1075	1164	1345	1488	1548	829
145°	1271	1328	1453	1543	1579	795
155°	1424	1457	1524	1576	1597	656
165°	1527	1539	1576	1592	1595	431
175°	1583	1582	1594	1589	1584	150
180°	1587	1587	1587	1587	1587	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	756.3	756.3	756.3	756.3	756.3
2.5°	761.2	754.2	754.1	754.7	755.2
5°	758.7	753.1	754.2	758.6	760.2
7.5°	754.1	749.8	757.3	767.7	772.2
10°	746.7	744.4	762.2	778.0	780.5
12.5°	735.8	738.2	766.5	771.4	768.4
15°	721.6	729.9	760.2	753.6	748.1
17.5°	704.4	719.3	741.7	730.3	724.2
20°	685.1	707.1	717.8	706.0	700.9
22.5°	663.8	692.3	690.8	682.3	677.7
25°	641.4	673.7	663.2	658.1	655.2
27.5°	617.2	648.9	634.3	634.6	633.4
30°	591.7	620.9	606.1	610.6	611.0
32.5°	564.8	591.1	579.2	585.1	576.9
35°	537.2	559.9	552.5	553.1	539.0
37.5°	509.0	528.4	526.8	516.2	505.3
40°	480.4	496.9	500.0	481.0	480.8
42.5°	451.1	465.5	466.7	456.2	466.6
45°	421.4	434.7	431.6	439.2	452.4
47.5°	391.2	403.9	397.7	421.9	432.5
50°	360.7	373.9	369.9	399.0	403.8
52.5°	330.4	344.7	347.0	370.0	376.3
55°	300.0	316.9	323.5	342.0	349.9
57.5°	269.6	289.2	297.2	315.3	325.3
60°	239.7	259.6	268.7	290.6	302.6
62.5°	209.2	230.6	241.3	268.2	283.9
65°	180.2	202.4	216.4	247.9	268.7
67.5°	155.1	176.2	193.0	231.4	257.6
70°	134.0	150.6	171.6	218.5	244.0
72.5°	114.0	125.5	153.0	198.4	215.3
75°	94.5	102.8	136.0	167.7	177.0
77.5°	76.0	82.3	116.6	133.4	135.6
80°	59.0	65.8	95.6	109.0	114.9
82.5°	42.4	53.6	79.8	95.6	102.0
85°	26.2	43.1	68.7	84.0	89.5
87.5°	10.1	34.1	58.0	72.9	78.2
90°	0.0	27.3	50.6	65.9	70.0
92.5°	20.9	71.6	97.0	111.9	112.1
95°	67.3	158.5	189.0	198.8	199.4
97.5°	120.9	262.2	299.8	315.2	317.7
100°	181.0	366.1	420.5	443.7	444.6
102.5°	245.0	455.7	542.2	564.8	565.7
105°	311.9	536.0	662.7	689.6	693.9
107.5°	381.8	601.9	772.1	825.5	833.7
110°	453.8	662.2	867.9	951.8	966.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	522.7	717.2	953.0	1052.4	1075.4
115°	590.5	771.3	1026.0	1144.4	1176.7
117.5°	656.0	822.9	1081.2	1230.5	1270.8
120°	720.0	873.8	1130.4	1294.6	1346.4
122.5°	782.7	924.9	1178.0	1346.3	1404.2
125°	844.5	976.0	1218.6	1385.2	1449.3
127.5°	904.8	1025.9	1251.6	1423.1	1482.3
130°	963.6	1073.2	1282.7	1451.7	1510.8
132.5°	1020.4	1119.3	1313.9	1472.5	1533.1
135°	1075.3	1164.2	1345.0	1487.5	1548.5
137.5°	1127.8	1207.5	1373.9	1501.3	1555.0
140°	1177.9	1249.4	1402.9	1514.8	1560.7
142.5°	1225.6	1290.0	1430.4	1529.0	1569.2
145°	1270.9	1328.1	1453.2	1542.8	1578.7
147.5°	1313.2	1364.6	1473.1	1555.3	1585.6
150°	1352.9	1398.3	1491.5	1566.5	1592.4
152.5°	1390.0	1429.4	1508.3	1573.1	1597.8
155°	1423.8	1457.0	1523.9	1576.1	1597.4
157.5°	1454.3	1482.7	1539.1	1579.6	1596.2
160°	1481.7	1504.8	1553.1	1583.3	1595.4
162.5°	1505.9	1523.4	1565.2	1588.0	1594.3
165°	1526.8	1539.2	1575.9	1591.5	1595.2
167.5°	1544.7	1552.8	1584.5	1595.6	1596.2
170°	1560.1	1564.6	1589.6	1596.4	1595.0
172.5°	1573.0	1574.6	1592.6	1594.0	1591.4
175°	1582.9	1581.5	1593.6	1589.3	1584.1
177.5°	1588.8	1585.9	1593.7	1586.8	1580.8
180°	1587.3	1587.3	1587.3	1587.3	1587.3

(END OF REPORT)