

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: 89090

Luminaire Tested: **E2-SB-2T5-DL-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89090
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2-SB-2T5-DL-2
Description: CORELITE ELEMENT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

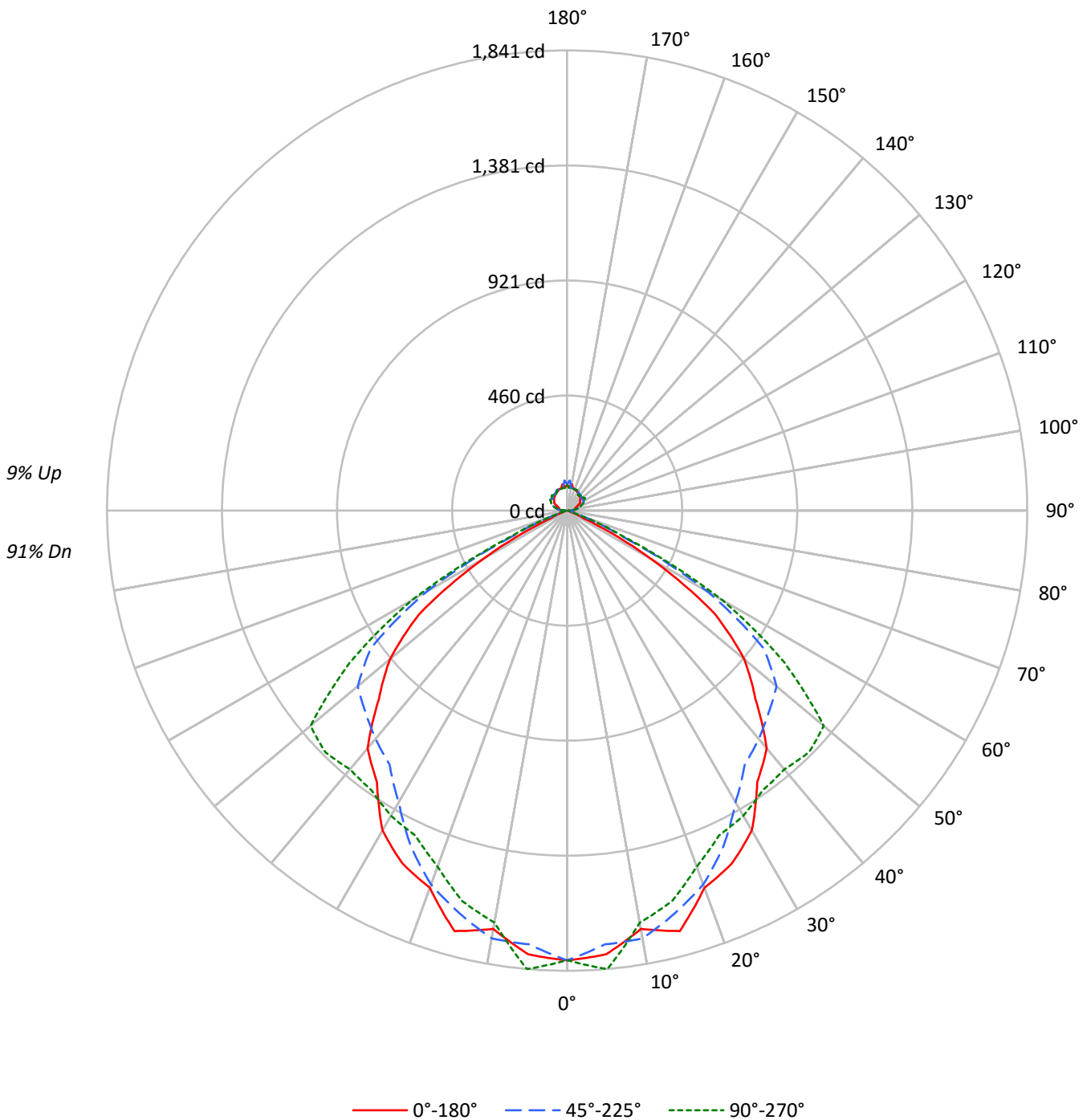
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 4539.4 lumens
Efficiency: 50.4%
Efficacy: 38.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Direct

Input Watts (W): 118
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



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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	50	30	10	0	
RCR																						
0	59	59	59	59	57	57	57	57	54	54	54	50	50	50	47	47	47	46				
1	55	53	51	50	53	51	50	48	48	47	46	46	45	44	43	43	42	41				
2	51	47	44	42	49	46	43	41	43	41	39	41	39	38	39	38	36	35				
3	46	42	38	35	45	41	37	35	39	36	34	37	34	33	35	33	32	30				
4	43	37	33	30	41	36	33	30	35	32	29	33	30	28	31	29	27	26				
5	39	34	29	26	38	33	29	26	31	28	25	30	27	25	28	26	24	23				
6	36	30	26	23	35	30	26	23	28	25	22	27	24	22	26	23	21	20				
7	34	27	23	20	33	27	23	20	26	22	20	25	22	19	24	21	19	18				
8	31	25	21	18	30	24	21	18	23	20	18	23	20	17	22	19	17	16				
9	29	23	19	16	28	22	19	16	22	18	16	21	18	16	20	17	15	14				
10	27	21	17	15	27	21	17	15	20	17	14	19	16	14	19	16	14	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8282	7834	8203
10°	7931	7603	7193
15°	8224	7157	6766
20°	7737	6754	6216
25°	7721	6258	5819
30°	7595	5717	5695
35°	7136	5319	5537
40°	7070	5219	5544
45°	6489	5132	5721
50°	6111	5100	5762
55°	5259	4678	4734
60°	3201	3354	3344
65°	674	1281	1276
70°	188	273	226
75°	123	152	88
80°	82	102	41
85°	88	59	20



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	167.7	3.7	1.9
10°-20°	473.8	10.4	5.3
20°-30°	686.4	15.1	7.6
30°-40°	822.4	18.1	9.1
40°-50°	907.0	20.0	10.1
50°-60°	790.7	17.4	8.8
60°-70°	255.9	5.6	2.8
70°-80°	23.3	0.5	0.3
80°-90°	8.6	0.2	0.1
90°-100°	29.8	0.7	0.3
100°-110°	51.2	1.1	0.6
110°-120°	64.7	1.4	0.7
120°-130°	67.8	1.5	0.8
130°-140°	61.2	1.3	0.7
140°-150°	52.4	1.2	0.6
150°-160°	41.4	0.9	0.5
160°-170°	25.6	0.6	0.3
170°-180°	9.4	0.2	0.1
0°-30°	1327.9	29.3	14.8
0°-40°	2150.3	47.4	23.9
0°-60°	3848.0	84.8	42.8
0°-90°	4135.8	91.1	46.0
90°-120°	145.8	3.2	1.6
90°-150°	327.2	7.2	3.6
90°-180°	404.0	8.9	4.5
0°-180°	4539.4	100.0	50.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1799	1799	1799	1799	1799	
5°	1782	1779	1742	1698	1841	167
15°	1742	1731	1668	1674	1618	480
25°	1559	1523	1481	1424	1435	716
35°	1326	1314	1239	1314	1366	841
45°	1065	1027	1141	1305	1368	829
55°	723	781	958	1043	1062	616
65°	72	124	232	280	259	135
75°	9	16	23	22	15	10
85°	3	5	7	6	3	4
90°	15	14	10	9	6	9
95°	35	42	27	22	16	24
105°	32	44	52	55	53	36
115°	46	58	72	75	71	47
125°	63	68	78	86	87	57
135°	75	76	79	83	87	57
145°	82	83	83	85	76	51
155°	87	92	93	90	92	41
165°	92	95	92	81	90	27
175°	94	90	121	92	90	10
180°	103	103	103	103	103	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1799.2	1799.2	1799.2	1799.2	1799.2
5°	1782.4	1778.8	1742.2	1697.7	1841.2
10°	1699.6	1767.2	1738.0	1773.6	1673.7
15°	1741.6	1730.7	1667.8	1674.3	1618.3
20°	1606.3	1636.0	1592.0	1581.0	1515.7
25°	1558.6	1522.7	1480.7	1424.1	1435.2
30°	1478.0	1440.4	1347.5	1351.0	1409.8
35°	1326.2	1313.6	1239.3	1314.1	1365.5
40°	1242.1	1169.9	1192.7	1316.0	1351.4
45°	1065.3	1027.3	1140.9	1304.7	1367.7
50°	925.4	910.3	1093.4	1273.5	1340.1
55°	723.2	780.7	958.3	1043.4	1061.8
60°	392.3	507.0	650.0	691.0	716.5
65°	71.9	123.6	232.2	280.1	258.7
70°	16.9	29.1	45.7	61.3	42.8
75°	8.9	16.3	23.1	22.5	15.4
80°	4.5	8.4	13.8	11.9	6.5
85°	3.2	5.1	7.0	5.9	2.8
90°	15.0	14.1	10.5	9.4	6.4
95°	34.8	41.7	27.3	21.7	15.7
100°	32.7	45.1	41.5	39.9	36.4
105°	32.1	44.2	51.5	55.2	53.4
110°	38.6	48.4	64.3	65.6	59.4
115°	46.0	57.6	72.4	75.4	70.9
120°	60.1	59.8	76.7	85.7	75.0
125°	63.4	68.1	77.7	86.2	87.4
130°	68.0	72.1	75.9	82.0	80.8
135°	74.7	75.8	78.8	83.4	86.7
140°	75.5	81.1	82.7	83.8	77.2
145°	82.2	82.7	83.1	85.4	76.0
150°	84.6	91.0	87.9	87.8	84.5
155°	87.3	91.6	93.0	90.5	91.7
160°	91.5	86.2	86.3	88.7	89.5
165°	91.5	95.4	91.8	81.2	90.0
170°	106.9	97.6	91.7	94.1	91.3
175°	93.8	90.4	120.9	91.8	90.5
180°	102.6	102.6	102.6	102.6	102.6

(END OF REPORT)