

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: p30826

Luminaire Tested: **Z3-WL-1T8-1C-UNV-14-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: p30826
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-1T8-1C-UNV-14-T1
Description: CORELITE Z3 1X4 RECESSED FIXTURE WITH CLEAR LENS, NANO PRISM INLAY AND WHITE UPPER REFLECTOR. ----RELATIVE PHOTOMETRY IS BASED ON RELATIONAL FACTORS CREATED USING MANUFACTURERS PUBLISHED DATA AND A BARE LAMP SUM FOR THE LAMP UNDER TEST IN GONIOPHOTOMETER WITH TEST DISTANCE OF 24.0 FT
Light Source: (1) DOUBLE BIPIN T8 LINEAR FLUORESCENT LAMPS 3500K TL80 F32T8/TL835 32 W
Ballast/Driver: GE ELECTRONIC BALLAST B-GE-232-MV-N

Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 2145.3 lumens
Efficiency: 76.6%
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

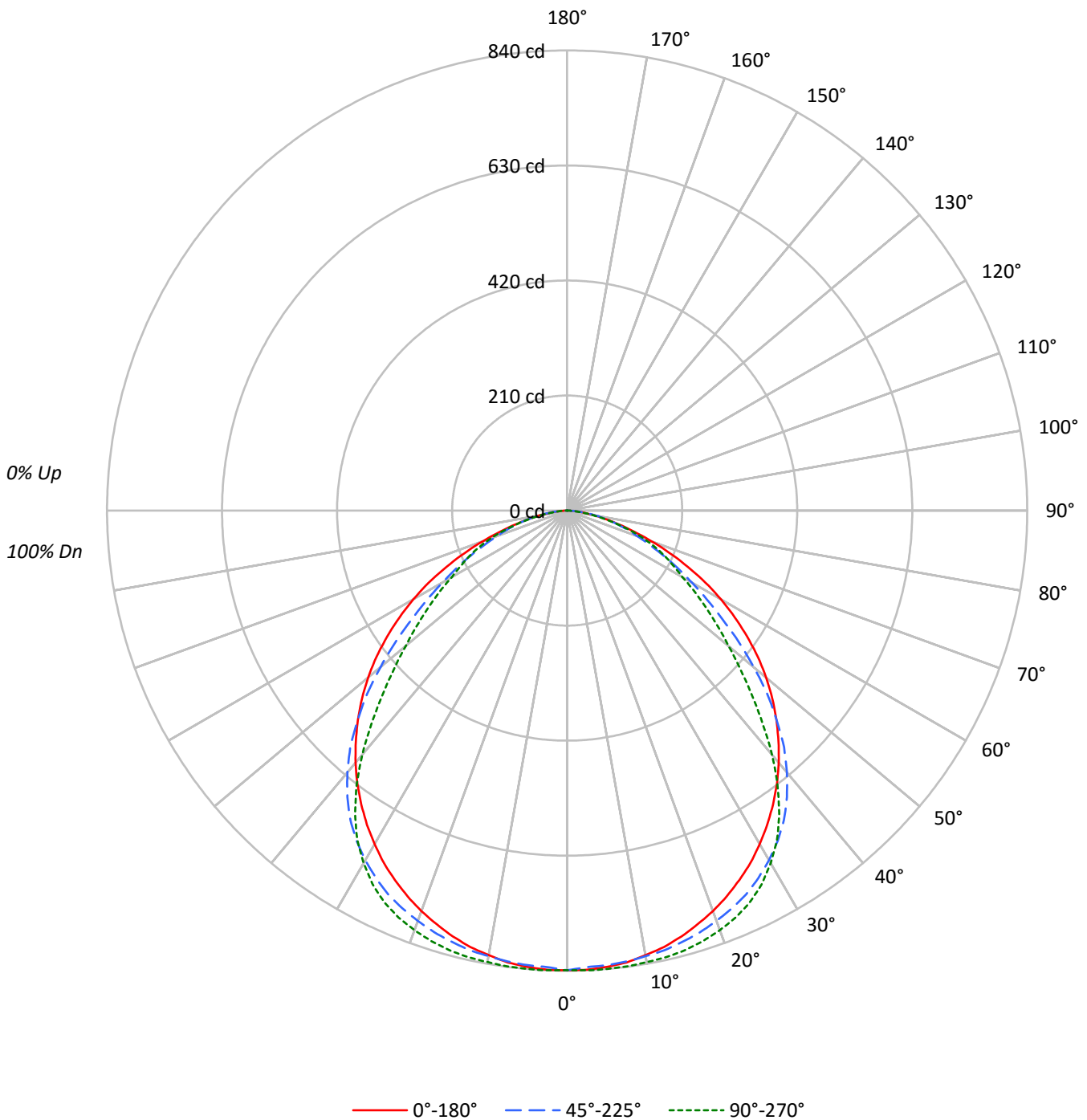
Input Watts (W): 33.7
Input Voltage (V): 120.05
Input Current (Ain): 0.2811
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77
1	84	81	78	75	82	79	76	74	76	74	72	73	71	69	70	69	67	66
2	77	71	66	62	75	70	65	61	67	63	60	65	61	59	62	60	57	56
3	71	63	57	52	69	62	56	52	60	55	51	58	54	50	56	52	49	48
4	65	56	50	45	63	55	49	45	53	48	44	52	47	43	50	46	43	41
5	60	50	44	39	58	50	43	39	48	43	38	47	42	38	45	41	38	36
6	55	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32
7	51	41	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28
8	48	38	32	27	47	37	31	27	36	31	27	35	30	27	35	30	27	25
9	45	35	29	25	44	34	29	25	34	28	24	33	28	24	32	27	24	23
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	30	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2258	2258	2258
5°	2258	2250	2269
10°	2252	2257	2287
15°	2243	2271	2315
20°	2228	2282	2334
25°	2209	2295	2343
30°	2184	2290	2309
35°	2152	2267	2217
40°	2111	2192	2044
45°	2055	2059	1815
50°	1984	1863	1612
55°	1881	1623	1454
60°	1744	1415	1308
65°	1547	1235	1254
70°	1290	1070	1164
75°	1019	967	977
80°	775	837	728
85°	556	556	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	79.6	3.7	2.8
10°-20°	230.9	10.8	8.2
20°-30°	354.9	16.5	12.7
30°-40°	423.0	19.7	15.1
40°-50°	406.2	18.9	14.5
50°-60°	319.2	14.9	11.4
60°-70°	206.8	9.6	7.4
70°-80°	101.7	4.7	3.6
80°-90°	22.9	1.1	0.8
90°-100°	0.1	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	665.5	31.0	23.8
0°-40°	1088.5	50.7	38.9
0°-60°	1813.9	84.5	64.8
0°-90°	2145.2	100.0	76.6
90°-120°	0.1	0.0	0.0
90°-150°	0.1	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	2145.3	100.0	76.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	839	839	839	839	839	
5°	836	836	833	839	840	79
15°	805	809	815	829	831	227
25°	744	757	773	788	789	343
35°	655	677	690	685	675	410
45°	540	563	541	496	477	416
55°	401	406	346	315	310	358
65°	243	225	194	191	197	241
75°	98	94	93	97	94	107
85°	18	20	18	17	16	22
90°	1	1	1	1	1	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	839	839	839	839	839
2.5°	839	838	834	839	840
5°	836	836	833	839	840
7.5°	832	832	830	838	839
10°	824	826	826	835	837
12.5°	816	819	822	833	835
15°	805	809	815	829	831
17.5°	792	798	807	821	824
20°	778	786	797	813	815
22.5°	762	773	786	803	804
25°	744	757	773	788	789
27.5°	725	739	756	770	769
30°	703	719	737	746	743
32.5°	680	699	715	718	713
35°	655	677	690	685	675
37.5°	629	652	659	644	631
40°	601	624	624	598	582
42.5°	571	595	586	549	529
45°	540	563	541	496	477
47.5°	508	529	495	447	429
50°	474	491	445	398	385
52.5°	439	450	396	356	346
55°	401	406	346	315	310
57.5°	363	361	303	282	276
60°	324	314	263	247	243
62.5°	285	268	227	216	219
65°	243	225	194	191	197
67.5°	203	186	162	169	173
70°	164	151	136	146	148
72.5°	129	120	114	122	121
75°	98	94	93	97	94
77.5°	72	70	73	73	68
80°	50	51	54	51	47
82.5°	33	34	35	32	29
85°	18	20	18	17	16
87.5°	7	7	7	7	7
90°	1	1	1	1	1
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)