

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: G3-1806-819-6

Luminaire Tested: **D3X-WG-20L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G3-1806-819-6
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L830-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

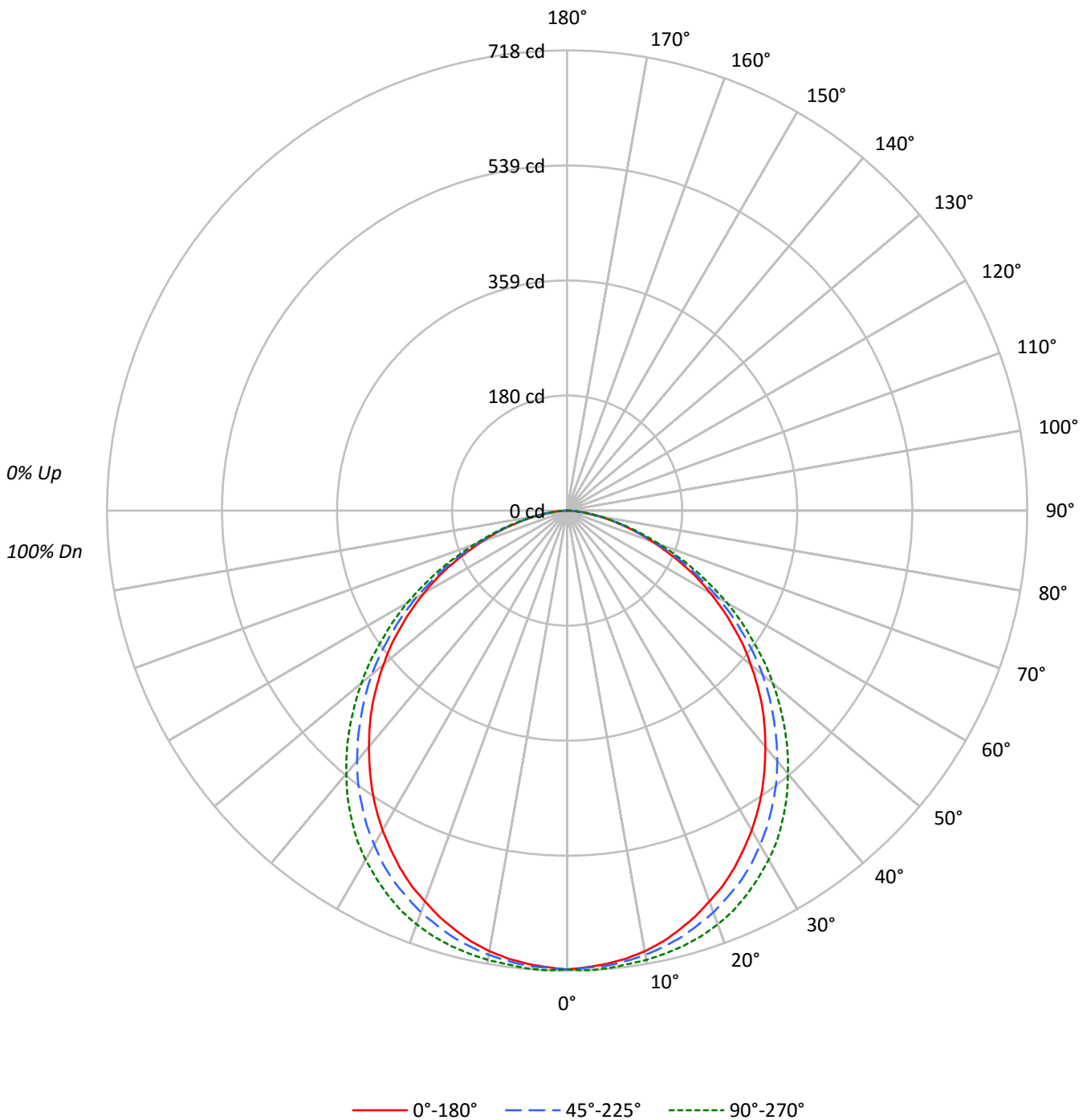
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1927	1927	1927
5°	1918	1926	1937
10°	1907	1924	1946
15°	1886	1919	1958
20°	1859	1910	1967
25°	1829	1897	1966
30°	1790	1871	1954
35°	1744	1836	1928
40°	1690	1792	1883
45°	1636	1732	1827
50°	1566	1666	1754
55°	1487	1572	1656
60°	1389	1464	1550
65°	1267	1324	1401
70°	1109	1157	1204
75°	946	967	1009
80°	759	775	790
85°	556	525	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	3.6
10°-20°	194.5	10.3
20°-30°	294.1	15.6
30°-40°	349.3	18.5
40°-50°	350.7	18.6
50°-60°	299.5	15.9
60°-70°	206.4	11.0
70°-80°	100.1	5.3
80°-90°	21.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	556.3	29.5
0°-40°	905.6	48.1
0°-60°	1555.8	82.6
0°-90°	1884.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	710	710	713	715	717	67
15°	677	680	689	698	703	191
25°	616	621	639	656	662	283
35°	531	539	559	580	587	332
45°	430	436	455	474	480	331
55°	317	322	335	349	353	283
65°	199	199	208	217	220	197
75°	91	89	93	95	97	98
85°	18	18	17	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	716	716	716	716	716
2.5°	713	713	714	717	718
5°	710	710	713	715	717
7.5°	705	706	709	713	714
10°	698	699	704	709	712
12.5°	689	691	697	705	708
15°	677	680	689	698	703
17.5°	664	668	678	691	696
20°	649	654	667	681	687
22.5°	634	638	653	669	676
25°	616	621	639	656	662
27.5°	596	603	622	640	646
30°	576	582	602	622	629
32.5°	554	560	582	602	610
35°	531	539	559	580	587
37.5°	506	515	536	554	563
40°	481	489	510	529	536
42.5°	456	463	483	503	509
45°	430	436	455	474	480
47.5°	402	409	427	443	450
50°	374	381	398	413	419
52.5°	347	351	367	381	388
55°	317	322	335	349	353
57.5°	288	291	304	316	322
60°	258	260	272	281	288
62.5°	230	230	239	249	253
65°	199	199	208	217	220
67.5°	169	171	177	184	186
70°	141	141	147	152	153
72.5°	116	115	118	122	124
75°	91	89	93	95	97
77.5°	69	68	70	72	72
80°	49	48	50	50	51
82.5°	32	33	33	32	31
85°	18	18	17	16	16
87.5°	6	6	6	7	7
90°	0	0	0	0	0

(END OF REPORT)