

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: METALUX

Report Number: 14321

Luminaire Tested: **2PGX-3U1-5/8S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14321
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-3U1-5/8S33I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR AND 4" DEEP 9 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER

Light Source: THREE SYLVANIA 31 WATT 1-5/8 U-LAMPS

FB031/835. LUMEN RATING = 2725 LMS.

Ballast/Driver: -

Summary

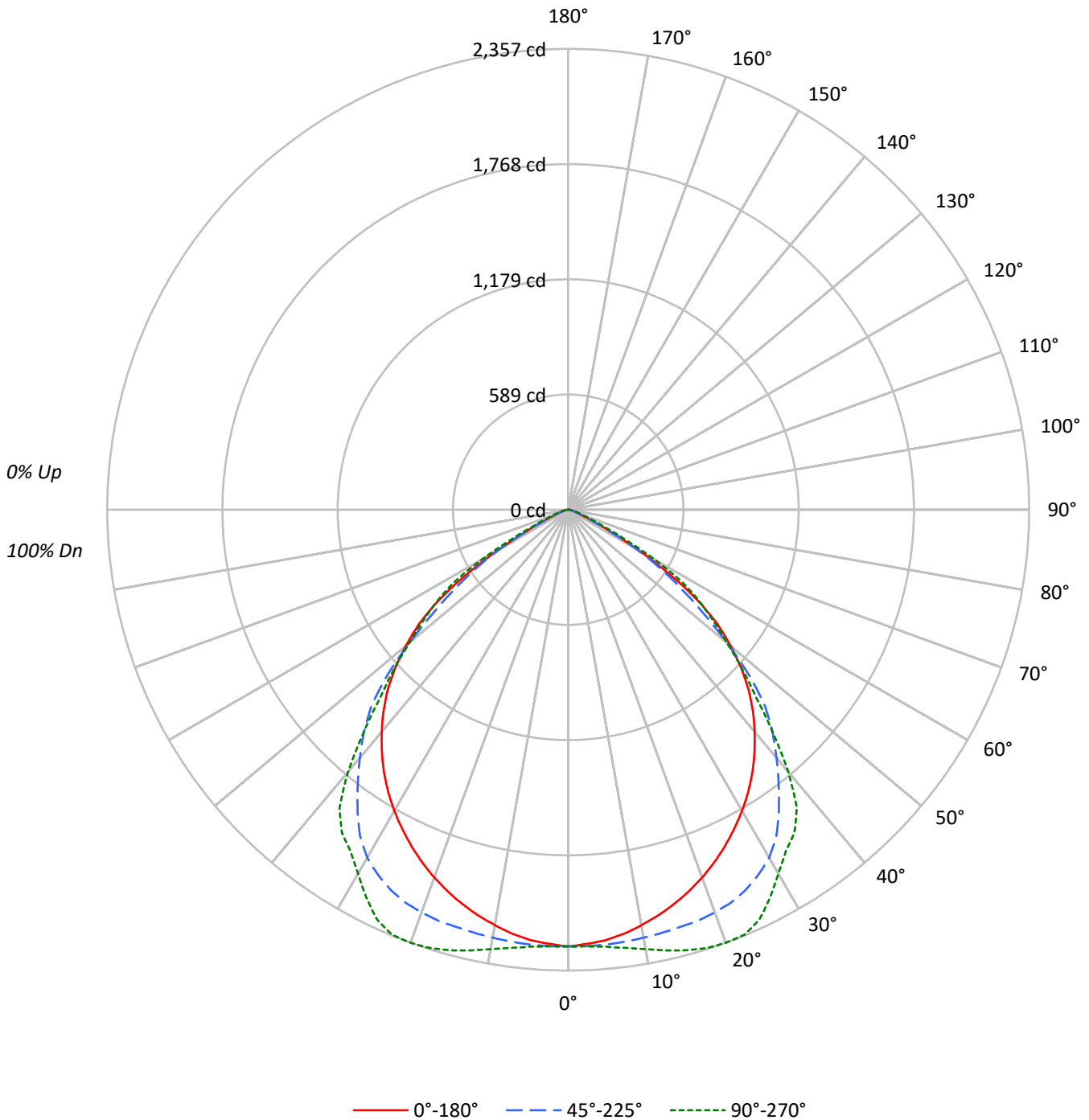
Lumens per Lamp: 2725 (3 lamps)
Luminaire Lumens: 4954.7 lumens
Efficiency: 60.6%
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.39 / 1.35
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 75
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	72	72	72	72	70	70	70	70	67	67	67		64	64	64		62	62	62	61
1	68	65	63	62	66	64	62	61	62	60	59		59	58	57		57	56	55	54
2	63	59	55	53	61	58	55	52	56	53	51		54	52	50		52	50	49	48
3	58	53	49	45	57	52	48	45	50	47	44		49	46	44		47	45	43	42
4	54	48	43	40	52	47	43	39	45	42	39		44	41	38		43	40	38	37
5	50	43	38	35	49	42	38	35	41	37	34		40	37	34		39	36	34	32
6	46	39	34	31	45	39	34	31	37	33	30		37	33	30		36	32	30	29
7	43	36	31	28	42	35	31	27	34	30	27		33	30	27		33	29	27	26
8	40	33	28	25	39	32	28	25	31	27	25		31	27	24		30	27	24	23
9	38	30	25	22	37	30	25	22	29	25	22		28	25	22		28	24	22	21
10	35	28	23	20	35	28	23	20	27	23	20		26	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7851	7851	7851
5°	7797	7875	7916
10°	7701	7933	8145
15°	7600	8040	8488
20°	7488	8198	8816
25°	7358	8324	8970
30°	7217	8341	8721
35°	7045	8058	8654
40°	6807	7600	8038
45°	6488	7082	6759
50°	5933	5786	5796
55°	4957	4331	5028
60°	2889	2836	3604
65°	1142	1134	1578
70°	555	581	817
75°	392	392	498
80°	312	273	314
85°	238	194	137



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	212.7	4.3	2.6	0°	2234	2234	2234	2234	2234	
10°-20°	625.8	12.6	7.7	5°	2210	2222	2232	2242	2244	209
20°-30°	976.2	19.7	11.9	15°	2089	2126	2210	2300	2333	589
30°-40°	1155.8	23.3	14.1	25°	1897	1986	2146	2268	2313	874
40°-50°	1064.0	21.5	13.0	35°	1642	1776	1878	1929	2017	1025
50°-60°	689.3	13.9	8.4	45°	1305	1434	1425	1361	1360	1000
60°-70°	188.1	3.8	2.3	55°	809	849	707	762	821	698
70°-80°	36.0	0.7	0.4	65°	137	137	136	185	190	171
80°-90°	6.8	0.1	0.1	75°	29	30	29	33	37	33
90°-100°	0.0	0.0	0.0	85°	6	6	5	5	3	7
100°-110°	0.0	0.0	0.0	90°	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°	1814.7	36.6	22.2							
0°-40°	2970.5	60.0	36.3							
0°-60°	4723.9	95.3	57.8							
0°-90°	4954.7	100.0	60.6							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4954.7	100.0	60.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2233.7	2233.7	2233.7	2233.7	2233.7
2.5°	2222.5	2230.6	2234.1	2237.0	2235.5
5°	2210.0	2222.1	2232.1	2242.4	2243.7
7.5°	2187.9	2204.7	2228.8	2252.9	2260.6
10°	2157.9	2181.6	2222.9	2266.8	2282.2
12.5°	2125.7	2155.2	2216.7	2286.5	2308.8
15°	2088.6	2126.2	2209.5	2300.1	2332.8
17.5°	2047.6	2097.8	2204.7	2310.2	2350.6
20°	2001.9	2064.4	2191.7	2308.2	2356.9
22.5°	1952.2	2027.8	2174.9	2297.2	2353.0
25°	1897.4	1986.0	2146.3	2268.3	2313.1
27.5°	1839.0	1942.1	2106.0	2201.3	2235.5
30°	1778.3	1893.5	2055.3	2112.3	2148.8
32.5°	1712.7	1838.0	1980.2	2018.2	2070.7
35°	1641.9	1775.8	1878.0	1929.2	2016.8
37.5°	1564.9	1706.0	1767.7	1856.3	1920.4
40°	1483.5	1628.0	1656.4	1735.8	1751.8
42.5°	1397.7	1536.9	1547.1	1557.2	1552.4
45°	1305.2	1433.9	1424.7	1361.1	1359.7
47.5°	1200.1	1316.8	1258.0	1173.6	1207.5
50°	1085.1	1181.9	1058.1	1024.3	1059.9
52.5°	962.2	1033.5	872.1	889.9	936.2
55°	809.0	849.4	706.8	762.2	820.6
57.5°	618.7	634.5	559.4	626.4	695.2
60°	411.0	403.8	403.4	467.9	512.7
62.5°	244.7	232.8	245.3	310.4	320.4
65°	137.3	136.9	136.4	185.0	189.8
67.5°	81.9	83.5	83.4	112.3	120.5
70°	54.0	56.0	56.5	74.3	79.5
72.5°	40.0	41.0	40.1	50.6	55.5
75°	28.9	30.0	28.9	33.4	36.7
77.5°	20.8	20.8	20.2	22.6	24.7
80°	15.4	16.0	13.5	13.9	15.5
82.5°	9.6	10.1	8.7	9.2	8.7
85°	5.9	6.3	4.8	4.8	3.4
87.5°	1.9	4.3	3.4	2.5	1.0
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)