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THE LIGHT CENTER OF THE INDUSTRY SINCE 1955

INDEPENDENT TESTING LABORATORIES, INC.
3386 LONGHORN ROAD, BOULDER, CO 80302 USA

PHONE: (303)442-1255 • FAX: (303)449-5274 • E-MAIL: itl@itlboulder.com • WEBSITE: www.itlboulder.com

REPORT NUMBER: ITL59976

DATE: 02/25/08

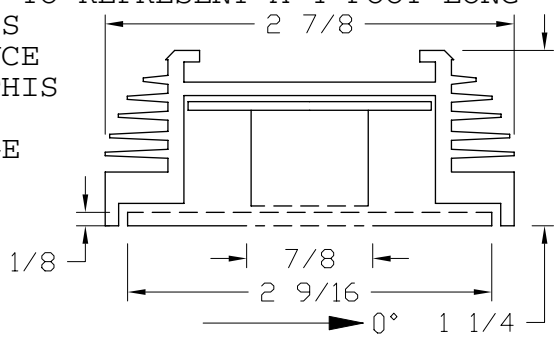
PREPARED FOR: GVA LIGHTING, INC.

CATALOG NUMBER: STR9-1200-CM-6-2.5W-5100K-WB

LUMINAIRE: EXTRUDED FINNED METAL HOUSING WITH FLAT METAL END CAPS, ONE WHITE CIRCUIT BOARD WITH TWENTY-FOUR LEDS AND OPTICAL ASSEMBLIES, CLEAR FLAT GLASS LENS WITH BLACK PAINTED PERIMETER. EXACT INTERIOR PROPERTIES UNKNOWN AS THIS IS A SEALED UNIT.

LAMP: TWENTY-FOUR 2.5-WATT WHITE LIGHT EMITTING DIODES (LEDS), TRANSLUCENT MICRO-PRISMATIC LENS IN WHITE PLASTIC FRAME BELOW EACH LED, VERTICAL BASE-UP POSITION.

NOTE: THIS REPORT WAS PRORATED FROM ITL TEST NUMBER 59970, WHICH WAS A TEST OF A 1 FOOT LONG LUMINAIRE CONTAINING SIX LED'S SPACED 49.5mm APART. THIS PRORATED DATA IS INTENDED TO REPRESENT A 4 FOOT LONG LUMINAIRE CONTAINING TWENTY-FOUR LED'S SPACED 49.5mm APART. ACTUAL PERFORMANCE MAY VARY. THE DATA USED TO GENERATE THIS PRORATED REPORT IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC) TO THE POWER SUPPLY. LAMP INFORMATION PROVIDED BY CLIENT.



CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0	960	960	960	960	960
5	960	960	960	960	968
15	1120	1124	1128	1128	1140
25	1164	1176	1212	1240	1264
35	656	672	700	720	736
45	272	276	284	292	304
55	112	116	120	128	136
65	48	48	56	64	72
75	16	16	20	28	32
85	0	0	0	4	4
90	0	0	0	0	0

FLUX

93
323
546
437
225
111
58
23
2

ZONAL LUMEN SUMMARY

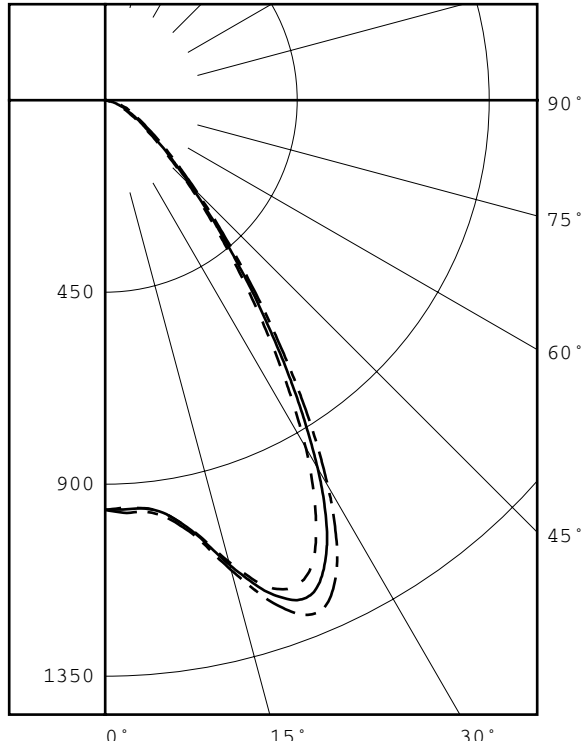
ZONE	LUMENS	%FIXT
0- 30	962	52.9
0- 40	1399	76.9
0- 60	1736	95.4
0- 90	1820	100.0
90-180	0	0.0
0-180	1820	100.0

CIE TYPE - DIRECT

PLANE	: 0-DEG	90-DEG
SPACING CRITERIA	: 1.3	1.3
LUMINOUS LENGTH	: 0.875	45.625

LUMINANCE DATA IN CANDELA/SQ M

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	14935.	15593.	16692.
55	7581.	8123.	9206.
65	4410.	5145.	6614.
75	2400.	3000.	4800.
85	0.	0.	1782.



LEGEND:
0-deg: - - - - -
45-deg: - - - - -
90-deg: - - - - -

Checked *R. BERGIN*
Approved *R. BERGER*



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CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0
0.0	960	960	960	960	960
2.5	956	960	960	960	968
5.0	960	960	960	960	968
7.5	972	976	972	972	980
10.0	1004	1004	1004	1004	1012
12.5	1052	1056	1056	1056	1064
15.0	1120	1124	1128	1128	1140
17.5	1184	1188	1196	1204	1216
20.0	1220	1228	1244	1260	1276
22.5	1216	1228	1256	1276	1300
25.0	1164	1176	1212	1240	1264
27.5	1064	1080	1124	1152	1176
30.0	940	952	996	1024	1044
32.5	796	812	848	876	892
35.0	656	672	700	720	736
37.5	532	544	568	584	596
40.0	428	436	452	464	476
42.5	340	348	360	368	380
45.0	272	276	284	292	304
47.5	216	220	228	236	244
50.0	172	176	184	192	200
52.5	140	140	148	156	164
55.0	112	116	120	128	136
57.5	92	92	100	108	112
60.0	72	76	84	92	96
62.5	60	60	68	76	80
65.0	48	48	56	64	72
67.5	40	40	48	56	60
70.0	28	32	36	44	52
72.5	20	24	28	36	40
75.0	16	16	20	28	32
77.5	8	8	12	20	24
80.0	4	4	8	12	16
82.5	0	0	4	8	12
85.0	0	0	0	4	4
87.5	0	0	0	0	0
90.0	0	0	0	0	0

ZONAL	LUMEN	SUMMARY
0-	5	23.
5-	10	70.
10-	15	125.
15-	20	197.
20-	25	263.
25-	30	283.
30-	35	249.
35-	40	189.
40-	45	133.
45-	50	92.
50-	55	65.
55-	60	46.
60-	65	33.
65-	70	25.
70-	75	15.
75-	80	7.
80-	85	2.
85-	90	0.



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

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
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	86	76	69	64	84	75	69	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.