

itl boulder

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: ITL64115

DATE: 01/27/10

PREPARED FOR: BETALED, A DIVISION OF RUUD LIGHTING

CATALOG NUMBER: FLD-EDG-40-**-06-C-UL-BK or BXALSD06C-UT (350mA)

LUMINAIRE: EXTRUDED BLACK PAINTED HOUSING, FABRICATED BLACK PAINTED METAL BALLAST MOUNTING PLATE, CAST BLACK PAINTED METAL END CAPS, FORMED PERFORATED METAL TOP, THREE EXTRUDED FINNED METAL HEAT SINKS, EACH HEAT SINK CONTAINS ONE CIRCUIT BOARD WITH 20 LEDS, CAST BLACK PAINTED METAL TRIM PLATE, ONE CLEAR NON-INTEGRAL PLASTIC LENS BELOW EACH LED.

LAMPS: SIXTY WHITE LIGHT EMITTING DIODES (LEDS), VERTICAL BASE-UP POSITION.

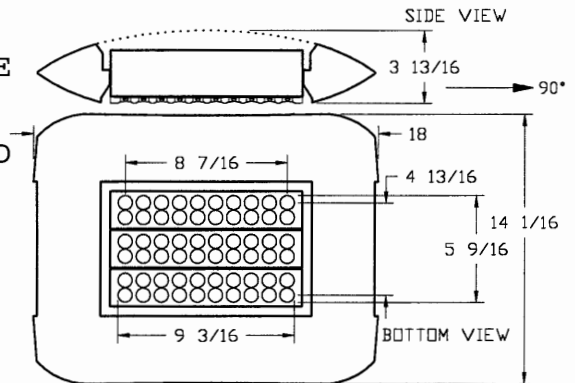
TOTAL INPUT WATTS = 75.0 AT 240.0 VOLTS

LED DRIVER: BETA LED CE366X01R0

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (240VAC, 60Hz) TO THE LED DRIVER. CLIENT STATES LEDS HAVE BEEN SEASONED FOR A MINIMUM OF 100 HOURS.

TEST PROCEDURE: IESNA LM-79-08

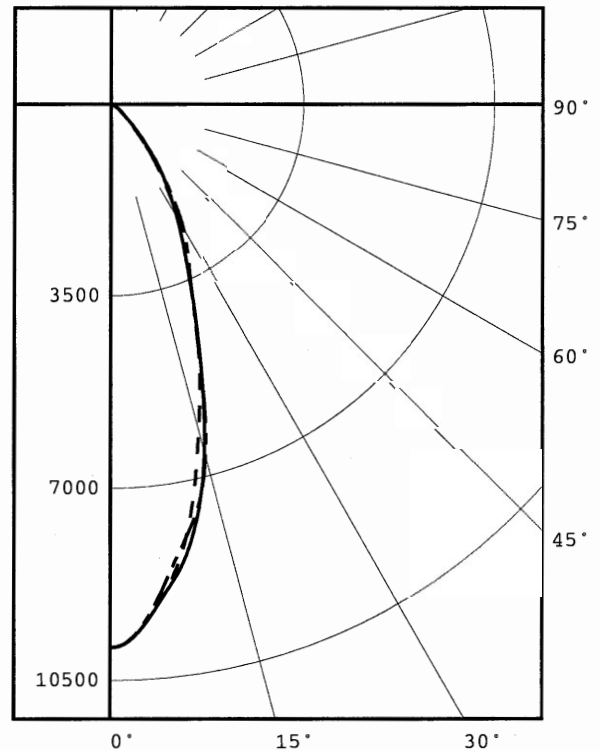
TEST DISTANCE = 25.25 FEET



CANDELA DISTRIBUTION

FLUX

Angle	0.0	22.5	45.0	67.5	90.0	FLUX
0	9894	9894	9894	9894	9894	843
5	9233	9254	9240	9194	9160	1768
15	6154	6290	6557	6657	6636	1534
25	3258	3265	3270	3302	3362	1041
35	1597	1646	1690	1707	1717	447
45	537	544	570	554	526	175
55	197	193	195	197	194	53
65	46	47	49	49	49	8
75	6	6	6	6	8	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0
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



LEGEND:
0-deg: ————
45-deg: - - - -
90-deg: - . - .

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	4148	70.6
0- 40	5189	88.3
0- 60	5813	98.9
0- 90	5875	100.0
90-120	0	0.0
90-130	0	0.0
90-150	0	0.0
90-180	0	0.0
0-180	5875	100.0

EFFICACY = 78.3 Lm/W
CIE TYPE - DIRECT

Checked *B. Hype*
Approved *R. Beattie*



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PLANE : 0-DEG 90-DEG
SPACING CRITERIA : 0.6 0.6
LUMINOUS LENGTH : 5.563 9.188

LUMINANCE DATA IN CANDELA/SQ M
ANGLE AVERAGE AVERAGE AVERAGE
IN DEG 0-DEG 45-DEG 90-DEG
45 23033. 24449. 22562.
55 10417. 10311. 10258.
65 3301. 3517. 3517.
75 703. 703. 937.
85 0. 0. 0.



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 CANDELA DISTRIBUTION
 LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
0.0	9894	9894	9894	9894	9894
0.5	9889	9898	9893	9891	9888
1.0	9872	9881	9876	9872	9868
1.5	9838	9847	9839	9836	9831
2.0	9784	9793	9784	9779	9772
2.5	9716	9725	9717	9709	9699
3.0	9633	9643	9634	9625	9614
3.5	9542	9553	9546	9535	9517
4.0	9442	9456	9448	9425	9407
4.5	9339	9356	9344	9311	9288
5.0	9233	9254	9240	9194	9160
5.5	9121	9152	9136	9074	9032
6.0	9013	9047	9033	8957	8906
6.5	8899	8942	8935	8844	8770
7.0	8789	8831	8840	8726	8642
7.5	8670	8723	8747	8617	8518
8.0	8543	8604	8653	8504	8398
8.5	8409	8479	8554	8397	8288
9.0	8264	8345	8441	8288	8179
9.5	8119	8210	8325	8186	8079
10.0	7957	8061	8197	8079	7977
10.5	7787	7904	8063	7973	7873
11.0	7615	7735	7920	7865	7770
11.5	7432	7566	7776	7751	7661
12.0	7247	7384	7623	7630	7546
12.5	7064	7202	7463	7498	7431
13.0	6869	7019	7290	7350	7290
13.5	6687	6834	7119	7200	7152
14.0	6503	6651	6942	7036	6986
14.5	6327	6471	6753	6856	6815
15.0	6154	6290	6557	6657	6636
15.5	5988	6118	6363	6455	6446
16.0	5823	5940	6163	6245	6238
16.5	5669	5772	5964	6031	6035
17.0	5513	5604	5759	5816	5824
17.5	5369	5440	5566	5609	5600
18.0	5216	5274	5372	5405	5384
18.5	5066	5113	5184	5207	5167
19.0	4909	4950	5000	5013	4969
19.5	4760	4794	4824	4830	4776
20.0	4603	4631	4646	4653	4593
22.5	3887	3888	3894	3894	3876
25.0	3258	3265	3270	3302	3362
27.5	2788	2770	2790	2842	2984
30.0	2381	2380	2385	2451	2620
32.5	1980	1999	2014	2049	2175
35.0	1597	1646	1690	1707	1717
37.5	1257	1304	1385	1379	1310
40.0	950	982	1053	1036	954
42.5	714	732	775	751	695
45.0	537	544	570	554	526
47.5	407	407	420	413	398
50.0	307	306	312	311	301
52.5	243	240	243	244	238
55.0	197	193	195	197	194
57.5	152	148	148	149	146
60.0	110	107	108	109	109
62.5	73	73	74	74	75
65.0	46	47	49	49	49
67.5	31	30	32	32	32
70.0	19	19	19	19	19
72.5	11	11	11	11	12
75.0	6	6	6	6	8
77.5	3	4	4	4	5
80.0	2	2	2	2	3



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LATERAL ANGLE

	0.0	22.5	45.0	67.5	90.0
82.5	1	1	1	1	2
85.0	0	0	0	0	0
87.5	0	0	0	0	0
90.0	0	0	0	0	0
92.5	0	0	0	0	0
95.0	0	0	0	0	0
100.0	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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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	86	84	87	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53

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.