

REPORT NUMBER: ITL84460

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ISSUE DATE: 04/17/15

PREPARED FOR: LITELAB CORPORATION

CATALOG NUMBER: 202-L13-90-30-26

LUMINAIRE: MACHINED BLACK FINISHED STUDDED METAL HEAT SINK, ONE WHITE CIRCUIT BOARD WITH 9 LEDS, ONE FROSTED PLASTIC LENS BELOW EACH SET OF 3 LEDS WITH 1 CONICAL OPTIC PER LED WITH RECESSED TOP SEMI-HEMISPHERICAL CENTER, MOLDED BLACK PLASTIC LENS RETAINING FRAME WITH ONE APERTURE PER LENS.

LAMPS: NINE WHITE LIGHT EMITTING DIODES (LEDs) EACH WITH CLEAR HEMISPHERICAL INTEGRAL LENS, VERTICAL BASE-UP POSITION.

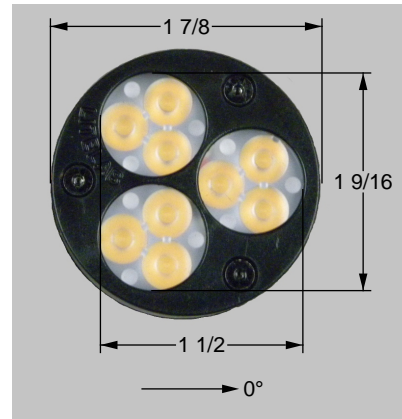
INPUT ELECTRICAL: 120.0 VOLTS, 22.3 WATTS, 0.192 AMPS

LED DRIVER: MAGTECH LD024D-CA07036-15

NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED AT RATED INPUT VOLTAGE (120VAC, 60Hz) TO THE DRIVER.

TEST PROCEDURE: IESNA LM-79-08

TEST DISTANCE = 20.0 FEET



DEG	CANDELA	LUMENS
0	2903	
5	2676	235
15	1305	359
25	410	196
35	123	81
45	45	36
55	21	19
65	10	10
75	3	4
85	0	0
90	0	0

ZONAL LUMEN SUMMARY	ZONE	LUMENS	%FIXT
0- 30		790	84.0
0- 40		871	92.6
0- 60		926	98.5
0- 90		940	100.0
90-180		0	0.0
0-180		940	100.0

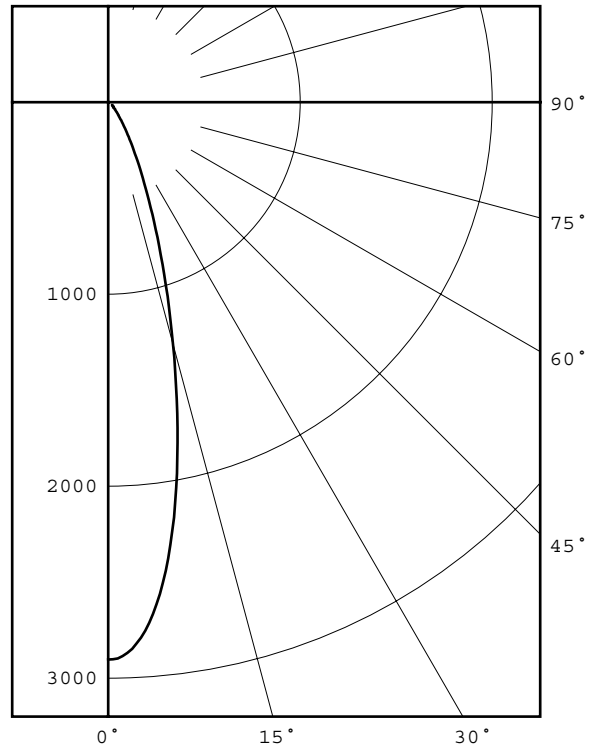
EFFICACY = 42.2 lm/W

CIE TYPE - DIRECT

LUMINAIRE SPACING CRITERION = 0.47

BEAM ANGLE (50%) : 27.9 DEGREES

FIELD ANGLE (10%) : 55.7 DEGREES



Checked B. HYRE
Approved R. BEATTIE
Lighting Engineer



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CANDELA DISTRIBUTION

0.0	2903
0.5	2902
1.0	2897
1.5	2886
2.0	2870
2.5	2850
3.0	2824
3.5	2794
4.0	2759
4.5	2720
5.0	2676
5.5	2627
6.0	2575
6.5	2519
7.0	2458
7.5	2397
8.0	2328
8.5	2259
9.0	2189
9.5	2115
10.0	2040
10.5	1966
11.0	1887
11.5	1812
12.0	1734
12.5	1660
13.0	1587
13.5	1513
14.0	1442
14.5	1373
15.0	1305
16.0	1176
17.0	1057
18.0	944
19.0	842
20.0	750
22.5	556
25.0	410
27.5	302
30.0	223
32.5	165
35.0	123
37.5	92
40.0	71
42.5	56
45.0	45
47.5	36
50.0	30
52.5	25
55.0	21
57.5	18
60.0	15
62.5	12
65.0	10
67.5	9
70.0	7
72.5	5
75.0	3
77.5	2
80.0	1
82.5	0
85.0	0
87.5	0
90.0	0



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5-DEGREE
ZONAL LUMEN SUMMARY

0- 5	67
5- 10	168
10- 15	195
15- 20	164
20- 25	118
25- 30	78
30- 35	50
35- 40	31
40- 45	21
45- 50	15
50- 55	11
55- 60	8
60- 65	6
65- 70	4
70- 75	3
75- 80	1
80- 85	0
85- 90	0

10-DEGREE
ZONAL LUMEN SUMMARY

0- 10	235
0- 20	594
0- 30	790
0- 40	871
0- 50	906
0- 60	926
0- 70	936
0- 80	940
0- 90	940



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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	111	106	106	106	102	102	102	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	98	97	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85
4	101	94	90	86	99	93	89	85	91	87	84	89	86	83	87	85	83	81	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77	77
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74	74
7	90	82	77	73	89	81	77	73	80	76	73	79	75	73	78	75	72	71	71
8	87	79	74	70	86	78	73	70	77	73	70	76	72	70	75	72	69	68	68
9	84	76	71	67	83	75	71	67	74	70	67	74	70	67	73	69	67	66	66
10	81	73	68	65	80	72	68	65	72	68	65	71	67	64	70	67	64	63	63

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 TEST SAMPLE.

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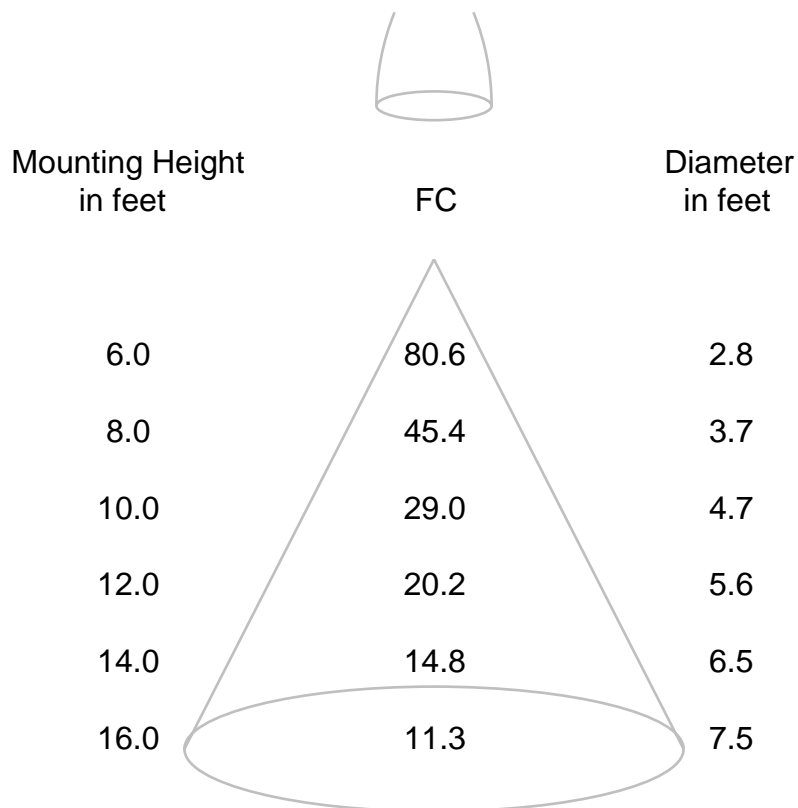
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc value is half the fc at nadir)





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NVLAP LAB CODE: 200925-0

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