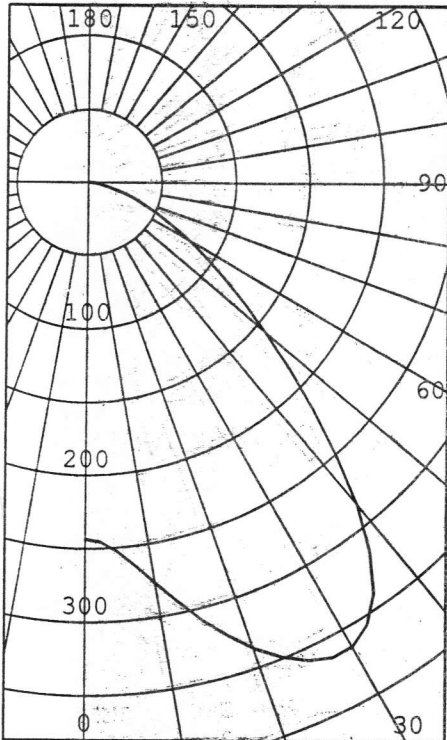


CERTIFIED TEST REPORT No. LSI

15063

ESCO LIGHTING 8" DIAMETER RECESSED DOWNLIGHT LUMINAIRE, CAT# SP2244  
WITH SPECULAR REFLECTOR AND CORNING #13 PRISMATIC GLASS LENS  
ONE PHILIPS 32 WATT CPFL LAMP, CAT# PL-T 32W/41/4P. LUMEN RATING = 2400 LMS.  
ONE TRIAD C2642UNVBES BALLAST OPERATING AT 120 VAC AND 36 WATTS

CANDLEPOWER SUMMARY

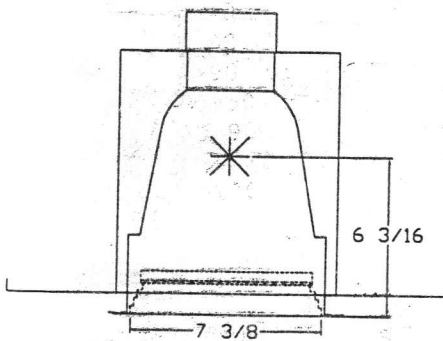


ANGLE	MEAN CP	LUMENS
0	244	
5	253	25
10	277	
15	309	88
20	337	
25	358	165
30	363	
35	341	209
40	285	
45	217	167
50	158	
55	112	102
60	78	
65	53	54
70	35	
75	21	22
80	9	
85	4	5
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	278	11.60	33.26
0-40	486	20.29	58.18
0-60	755	31.50	90.34
0-90	836	34.87	100.00
40-90	349	14.58	41.82
60-90	80	3.37	9.66
90-180	0	.00	.00
0-180	836	34.87	100.00

\*\* EFFICIENCY: 34.9% \*\*



LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	MEAN CD/SQ M
45	11156
55	7100
65	4594
75	2890
85	1695

CERTIFIED BY:

*John O. Franell*

DATE:  
OCT 13, 2000

PREPARED FOR:

ESCO LIGHTING INC  
CHICAGO, IL

TESTED IN ACCORDANCE WITH IES PROCEDURES.

Lighting Sciences  
7830 E. Evans Rd.  
Scottsdale, AZ, USA 85260

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ONE TRIAD C2642UNVBES BALLAST OPERATING AT 120 VAC AND 36 WATTS

CANDLEPOWER DATA  
IN 2.5 DEGREE STEPS

ANGLE	CANDLEPOWER	LUMENS
.0	244	
2.5	246	
5.0	253	25
7.5	263	
10.0	277	
12.5	292	
15.0	309	88
17.5	323	
20.0	337	
22.5	349	
25.0	358	165
27.5	364	
30.0	363	
32.5	356	
35.0	341	209
37.5	316	
40.0	285	
42.5	250	
45.0	217	167
47.5	186	
50.0	158	
52.5	133	
55.0	112	102
57.5	94	
60.0	78	
62.5	65	
65.0	53	54
67.5	44	
70.0	35	
72.5	28	
75.0	21	22
77.5	14	
80.0	9	
82.5	6	
85.0	4	5
87.5	2	
90.0	0	

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ESCO LIGHTING 8" DIAMETER RECESSED DOWNLIGHT LUMINAIRE, CAT# SP2244  
WITH SPECULAR REFLECTOR AND CORNING #13 PRISMATIC GLASS LENS  
ONE PHILIPS 32 WATT CPFL LAMP, CAT# PL-T 32W/41/4P. LUMEN RATING = 2400 LMS.  
ONE TRIAD C2642UNVBES BALLAST OPERATING AT 120 VAC AND 36 WATTS

AVERAGE LUMINANCE DATA

CD./SQ.M.	(FOOTLAMBERTS)
ANGLE	LUMINANCE
0	8837 ( 2579)
30	15215 ( 4440)
40	13522 ( 3946)
45	11156 ( 3256)
50	8901 ( 2597)
55	7100 ( 2072)
60	5688 ( 1660)
65	4594 ( 1341)
70	3758 ( 1096)
75	2890 ( 843)
80	1952 ( 569)
85	1695 ( 494)

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CERTIFIED TEST REPORT No. LSI 15063

ESCO LIGHTING 8" DIAMETER RECESSED DOWNLIGHT LUMINAIRE, CAT# SP2244  
WITH SPECULAR REFLECTOR AND CORNING #13 PRISMATIC GLASS LENS  
ONE PHILIPS 32 WATT CPFL LAMP, CAT# PL-T 32W/41/4P. LUMEN RATING = 2400 LMS.  
ONE TRIAD C2642UNVBES BALLAST OPERATING AT 120 VAC AND 36 WATTS

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	.42	.42	.42	.42	.41	.41	.41	.41	.39	.39	.39	.37	.37	.37	.36	.36	.36	.36	.36	.36	.35
1	.39	.38	.36	.35	.38	.37	.36	.35	.35	.34	.34	.34	.33	.33	.33	.32	.32	.33	.32	.32	.31
2	.36	.34	.32	.31	.35	.33	.32	.30	.32	.31	.30	.31	.30	.29	.30	.29	.28	.30	.29	.28	.28
3	.34	.31	.28	.27	.33	.30	.28	.26	.29	.27	.26	.28	.27	.25	.27	.26	.25	.27	.26	.25	.24
4	.31	.28	.25	.23	.31	.27	.25	.23	.27	.25	.23	.26	.24	.23	.25	.24	.22	.25	.24	.22	.22
5	.29	.25	.23	.21	.28	.25	.22	.21	.24	.22	.20	.23	.22	.20	.23	.21	.20	.23	.21	.20	.19
6	.27	.23	.20	.18	.26	.22	.20	.18	.22	.20	.18	.21	.19	.18	.21	.19	.18	.21	.19	.18	.17
7	.25	.21	.18	.16	.24	.20	.18	.16	.20	.17	.16	.19	.17	.16	.19	.17	.16	.19	.17	.16	.15
8	.23	.19	.16	.14	.22	.18	.16	.14	.18	.16	.14	.18	.15	.14	.17	.15	.14	.17	.15	.14	.13
9	.21	.17	.14	.12	.21	.17	.14	.12	.16	.14	.12	.16	.14	.12	.16	.14	.12	.16	.14	.12	.12
10	.20	.15	.13	.11	.19	.15	.13	.11	.15	.12	.11	.14	.12	.11	.14	.12	.11	.14	.12	.11	.10

LUMINAIRE INPUT WATTS = 33.0

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.

BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.