

# Photometric Report

CATALOG NUMBER: SND14-B20LS 120V

Friday, January 30, 2009

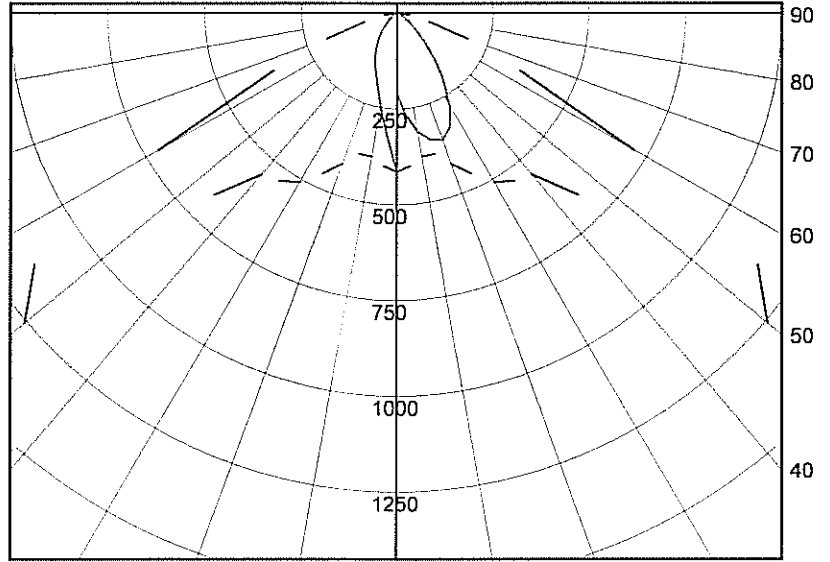
FILENAME: SND14-20L-S.IES

IESNA:LM-63-2002  
 [TEST] GUTH 144171B  
 [ISSUEDATE] 16-DEC-2008  
 [MANUFAC] GUTH LIGHTING INC - ST. LOUIS, MISSOURI  
 [LUMINAIRE] 20 LUXEON REBEL LED (5BOARDS 4LEDS 500ma) 11x13x9"WALLPACK  
 [MORE] STIPPLED GLASS LENS  
 [LUMCAT] SND14-B20LS 120V  
 [LAMPCAT] LXML-PWN1-0080

**SUMMARY DATA**

EFFICIENCY (Total): 75.4 %  
 EFFICIENCY (Downlight): 75.4 %  
 EFFICIENCY (Uplight): 0.0 %  
 CIE CLASSIFICATION: DIRECT  
 SPACING CRITERION (90-Deg.): 2.89  
 LUMENS/LAMP: 1730  
 NO. OF LAMPS: 1  
 LUMINOUS OPENING: RECTANGULAR  
     Width: 0.88 (Feet)  
     Length: 0.57  
     Height: 0.00  
 INPUT WATTS: 32

**CANDELA PLOT**



Bilaterally Symmetric  
 Solid: 180-0 Degrees    Dashed: 90-270 Degrees

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Luminaire
0 - 30	337.4	19.5	25.9
0 - 40	571.7	33.0	43.8
0 - 60	1128.6	65.2	86.5
60 - 90	175.9	10.2	13.5
0 - 90	1304.5	75.4	100.0
90 - 180	0.0	0.0	0.0
0 - 180	1304.5	75.4	100.0

**AVERAGE LUMINANCE**  
 (Candelas / Square Meter)

Angle	0	22.5	45	67.5	90	112.5	135	157.5	180
0	4444	8888	8888	8888	8888	8888	8888	8888	8888
45	2975	6558	13480	24289	20342	5222	2247	1457	1154
55	1235	2994	7561	45889	42820	3968	1273	674	524
65	610	1727	4064	21031	18085	2845	914	406	305
75	332	1327	2488	6636	7300	1991	664	0	0
85	0	0	0	1478	493	0	0	0	0

**COEFFICIENT OF UTILIZATION TABLE**

Effective Floor Cavity Reflectance = 20%

Pcc ...	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	.90	.90	.90	.90	.88	.88	.88	.88	.84	.84	.84	.80	.80	.80	.77	.77	.77	.75				
1	.83	.80	.77	.74	.81	.78	.75	.73	.75	.73	.71	.72	.70	.68	.69	.68	.66	.65				
2	.76	.70	.65	.61	.74	.68	.64	.60	.66	.62	.59	.63	.60	.57	.61	.58	.56	.55				
3	.69	.61	.55	.51	.67	.60	.55	.50	.58	.53	.49	.56	.52	.48	.54	.51	.48	.46				
4	.63	.54	.48	.43	.61	.53	.47	.42	.51	.46	.42	.49	.45	.41	.48	.44	.41	.39				
5	.58	.48	.41	.36	.56	.47	.41	.36	.46	.40	.36	.44	.39	.35	.43	.38	.35	.33				
6	.53	.43	.36	.31	.52	.42	.36	.31	.41	.35	.31	.40	.35	.31	.38	.34	.30	.29				
7	.49	.39	.32	.28	.48	.38	.32	.27	.37	.31	.27	.36	.31	.27	.35	.30	.27	.25				
8	.45	.35	.29	.24	.44	.35	.29	.24	.34	.28	.24	.33	.28	.24	.32	.27	.24	.22				
9	.42	.32	.26	.22	.41	.32	.26	.22	.31	.25	.22	.30	.25	.21	.29	.25	.21	.20				
10	.40	.30	.24	.20	.39	.29	.23	.19	.28	.23	.19	.28	.23	.19	.27	.22	.19	.18				

Reported data calculated from manufacturer's data file, based on IESNA recommended methods.

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## CANDELA TABLE

Vertical Angle	Horizontal Angles								
	<u>0</u>	<u>22.5</u>	<u>45</u>	<u>67.5</u>	<u>90</u>	<u>112.5</u>	<u>135</u>	<u>157.5</u>	<u>180</u>
0	207	414	414	414	414	414	414	414	414
5	267	524	494	450	400	360	332	316	314
10	313	610	550	468	380	314	268	252	244
15	342	666	604	502	380	280	220	200	196
20	351	692	662	574	418	268	196	172	162
25	329	658	688	654	462	260	168	140	136
30	278	566	702	742	508	252	146	120	110
35	210	446	652	792	534	232	122	94	86
40	154	320	572	796	548	208	98	66	62
45	98	216	444	800	670	172	74	48	38
50	61	144	316	1072	<u>1258</u>	140	54	32	24
55	33	80	202	1226	1144	106	34	18	14
60	23	54	130	848	716	78	26	16	10
65	12	34	80	414	356	56	18	8	6
70	8	22	48	208	196	42	14	6	2
75	4	16	30	80	88	24	8	0	0
80	1	6	16	34	32	14	0	0	0
85	0	0	0	6	2	0	0	0	0
90	0	0	0	0	0	0	0	0	0

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