

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027407

Luminaire Tested: S125DIP-B1090D375UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027407
REPORT IS A COMBINATION OF REPORTS P1001367 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

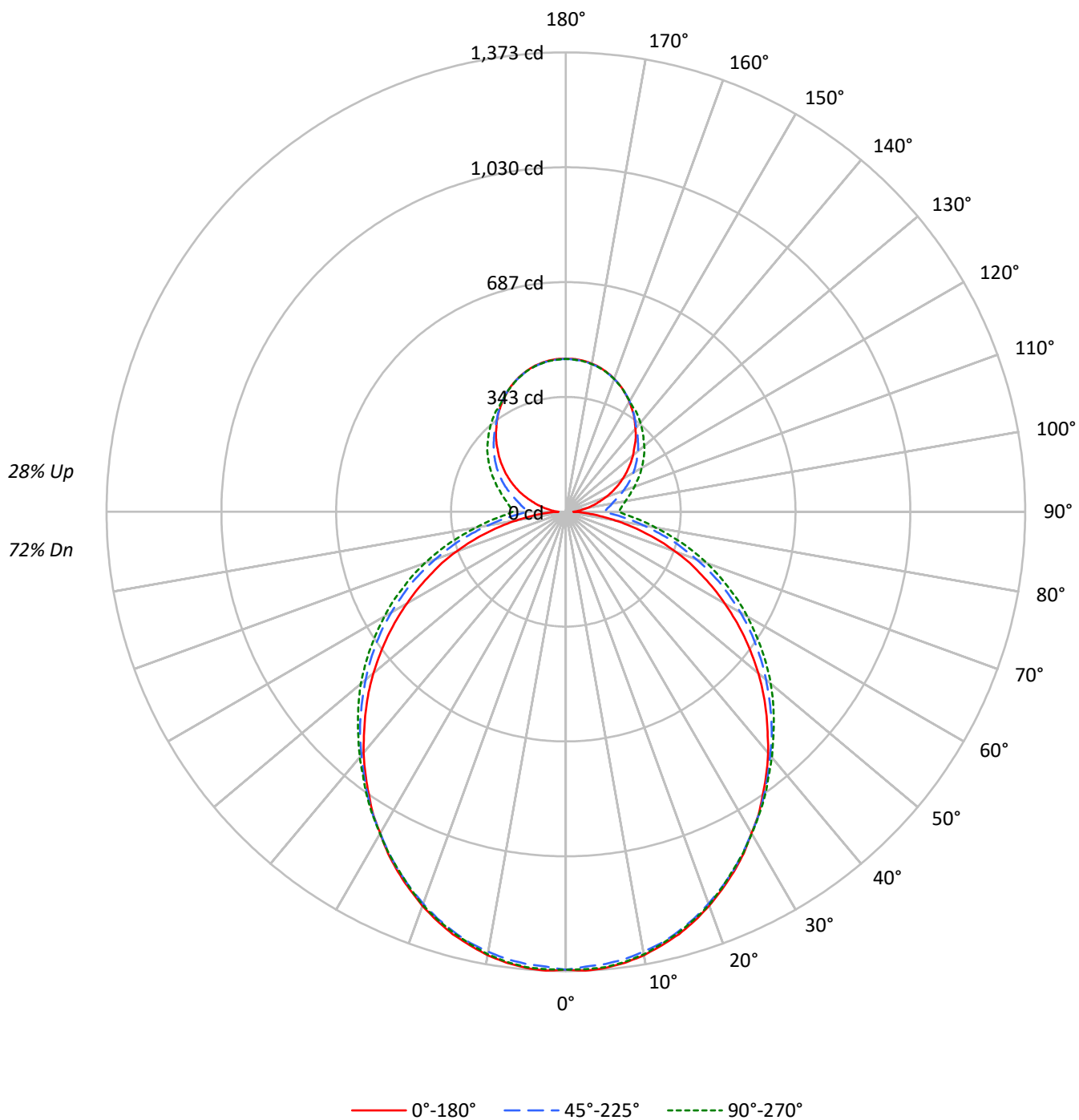
Lumens per Lamp: N/A
Luminaire Lumens: 5516.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	50	30	10
RCR																				
0	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72	72	72
1	102	97	92	88	96	92	88	84	82	79	77	74	72	69	66	64	63	59	59	59
2	92	84	77	71	87	80	74	68	72	67	63	64	60	57	57	55	52	48	48	48
3	84	73	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	40	40	40
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37	34	34	34
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	40	36	32	30	30	30
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	28	26	26	26
7	60	47	38	32	57	45	37	31	41	34	29	37	31	27	33	29	25	23	23	23
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23	20	20	20
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20	18	18	18
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19	17	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	2.3
10°-20°	367.7	6.7
20°-30°	546.7	9.9
30°-40°	647.5	11.7
40°-50°	669.4	12.1
50°-60°	616.7	11.2
60°-70°	498.5	9.0
70°-80°	333.6	6.0
80°-90°	173.1	3.1
90°-100°	127.5	2.3
100°-110°	161.9	2.9
110°-120°	201.0	3.6
120°-130°	228.7	4.1
130°-140°	237.7	4.3
140°-150°	223.7	4.1
150°-160°	185.9	3.4
160°-170°	123.6	2.2
170°-180°	43.3	0.8
0°-30°	1043.9	18.9
0°-40°	1691.5	30.7
0°-60°	2977.5	54.0
0°-90°	3982.7	72.2
90°-120°	490.4	8.9
90°-150°	1180.5	21.4
90°-180°	1533.0	27.8
0°-180°	5516.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	22	68	116	148	159	16
95°	40	76	125	157	168	38
105°	93	116	159	188	198	99
115°	161	172	208	232	239	160
125°	229	230	257	278	284	205
135°	294	294	304	322	327	226
145°	354	354	355	362	366	221
155°	403	403	404	405	403	186
165°	438	438	438	440	437	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	21.9	67.6	115.7	148.4	158.8
92.5°	29.5	70.1	120.3	152.3	162.4
95°	40.5	76.1	125.4	157.4	167.5
97.5°	51.7	84.2	133.5	163.8	173.6
100°	64.6	92.7	140.3	171.7	180.4
102.5°	78.5	105.8	149.1	179.5	188.7
105°	93.2	116.4	158.8	187.7	198.2
107.5°	109.2	129.8	170.5	198.4	206.4
110°	126.0	143.9	182.6	209.1	218.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.5	157.3	195.0	219.5	228.1
115°	161.4	172.1	207.7	231.5	239.2
117.5°	178.5	185.5	219.8	243.0	251.0
120°	195.5	201.3	232.6	255.4	262.0
122.5°	212.7	214.4	244.9	266.1	273.1
125°	229.1	229.8	257.1	277.7	284.1
127.5°	245.8	245.6	268.7	288.5	295.9
130°	261.8	262.3	281.8	300.2	306.2
132.5°	276.5	279.7	292.8	311.2	315.5
135°	293.6	294.3	304.1	321.6	326.8
137.5°	309.6	310.3	316.4	332.9	336.5
140°	323.5	325.2	327.7	343.1	346.7
142.5°	338.8	338.9	340.3	352.8	356.3
145°	353.7	353.8	354.9	361.6	365.9
147.5°	366.3	367.3	368.0	371.8	371.7
150°	380.1	379.8	381.2	381.2	381.8
152.5°	391.5	392.2	392.6	393.6	392.2
155°	403.2	403.2	403.6	405.0	403.2
157.5°	413.9	413.2	413.6	415.0	412.5
160°	423.2	422.1	422.4	423.9	422.1
162.5°	431.3	430.6	430.6	432.4	430.3
165°	438.5	437.7	438.1	439.5	437.4
167.5°	444.9	443.4	443.4	445.6	443.4
170°	449.8	448.4	448.4	450.5	448.1
172.5°	453.4	452.0	452.0	454.1	452.0
175°	455.9	454.5	454.5	456.6	454.1
177.5°	457.7	456.2	455.9	458.0	455.5
180°	456.9	456.9	456.9	456.9	456.9

(END OF REPORT)