

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: P1027416

Luminaire Tested: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027416
REPORT IS A COMBINATION OF REPORTS P1001376 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

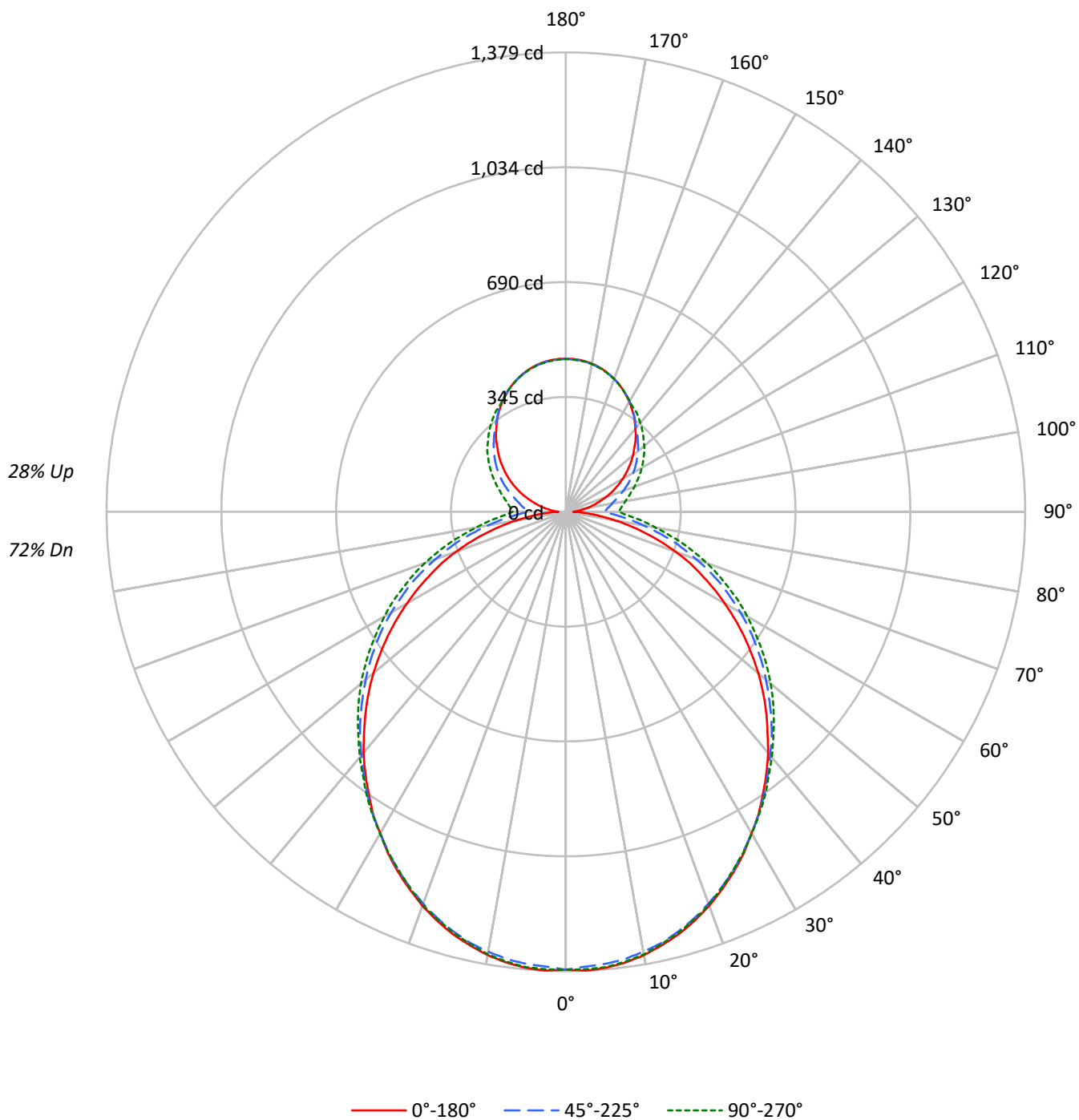
Lumens per Lamp: N/A
Luminaire Lumens: 5539.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1027416

CATALOG NUMBER: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1027416

CATALOG NUMBER: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8807	8807	8807
5°	8821	8622	8643
10°	8755	8446	8422
15°	8648	8241	8150
20°	8504	7994	7880
25°	8334	7731	7554
30°	8127	7445	7257
35°	7935	7180	6984
40°	7738	6902	6708
45°	7517	6661	6460
50°	7304	6399	6236
55°	7049	6149	5976
60°	6770	5864	5709
65°	6477	5564	5409
70°	6142	5162	5097
75°	5615	4765	4716
80°	4922	4282	4295
85°	4237	3899	4073

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7517 cd/sqm

TEST NUMBER: P1027416

CATALOG NUMBER: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.3
10°-20°	369.2	6.7
20°-30°	549.1	9.9
30°-40°	650.3	11.7
40°-50°	672.3	12.1
50°-60°	619.3	11.2
60°-70°	500.6	9.0
70°-80°	335.0	6.0
80°-90°	173.9	3.1
90°-100°	128.0	2.3
100°-110°	162.5	2.9
110°-120°	201.8	3.6
120°-130°	229.6	4.1
130°-140°	238.6	4.3
140°-150°	224.6	4.1
150°-160°	186.7	3.4
160°-170°	124.1	2.2
170°-180°	43.4	0.8
0°-30°	1048.4	18.9
0°-40°	1698.6	30.7
0°-60°	2990.2	54.0
0°-90°	3999.6	72.2
90°-120°	492.4	8.9
90°-150°	1185.2	21.4
90°-180°	1539.0	27.8
0°-180°	5539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1374	1372	1362	1373	1372	130
15°	1312	1314	1304	1312	1307	370
25°	1193	1197	1188	1194	1187	549
35°	1032	1042	1038	1042	1042	646
45°	850	865	872	881	883	656
55°	654	675	697	712	717	584
65°	450	481	513	534	539	447
75°	248	283	326	353	360	263
85°	74	119	166	195	206	77
90°	22	68	116	149	160	17
95°	41	76	126	158	168	38
105°	94	117	159	189	199	100
115°	162	173	209	232	240	160
125°	230	231	258	279	285	206
135°	295	296	305	323	328	227
145°	355	355	356	363	367	222
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

TEST NUMBER: P1027416

CATALOG NUMBER: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.5	1374.5	1374.5	1374.5	1374.5
2.5°	1378.6	1375.9	1366.4	1375.9	1374.5
5°	1374.5	1371.8	1362.4	1373.2	1371.8
7.5°	1365.1	1363.7	1354.3	1363.7	1362.4
10°	1351.6	1351.6	1340.8	1350.3	1348.9
12.5°	1332.7	1334.1	1326.0	1332.7	1328.7
15°	1312.5	1313.9	1304.4	1312.5	1307.1
17.5°	1286.9	1289.6	1280.2	1286.9	1282.9
20°	1258.6	1261.3	1251.9	1255.9	1255.9
22.5°	1226.3	1231.7	1220.9	1226.3	1222.2
25°	1192.6	1196.6	1188.5	1193.9	1187.2
27.5°	1156.2	1161.6	1152.2	1156.2	1153.5
30°	1114.4	1122.5	1114.4	1117.1	1115.8
32.5°	1076.7	1083.4	1078.0	1080.7	1079.4
35°	1032.2	1041.7	1037.6	1041.7	1041.7
37.5°	989.1	997.2	995.8	1001.2	999.9
40°	944.6	955.4	954.1	959.5	962.2
42.5°	896.1	911.0	915.0	921.7	921.7
45°	850.3	865.1	871.9	881.3	882.7
47.5°	803.1	816.6	827.4	840.9	843.6
50°	754.6	769.5	784.3	799.1	803.1
52.5°	703.4	722.3	741.2	757.3	760.0
55°	653.6	675.1	696.7	711.5	716.9
57.5°	602.4	628.0	652.2	668.4	672.4
60°	551.2	578.1	605.1	625.3	629.3
62.5°	501.3	528.2	557.9	580.8	586.2
65°	450.1	481.1	513.4	533.6	539.0
67.5°	402.9	432.6	464.9	489.2	495.9
70°	350.4	381.4	416.4	442.0	450.1
72.5°	299.2	331.5	370.6	398.9	404.3
75°	248.0	283.0	326.1	353.1	359.8
77.5°	198.1	238.5	278.9	308.6	314.0
80°	152.3	192.7	238.5	268.2	273.6
82.5°	110.5	153.6	200.8	229.1	239.9
85°	74.1	118.6	165.8	195.4	206.2
87.5°	47.2	90.3	136.1	167.1	176.5
90°	22.0	67.9	116.2	149.0	159.5
92.5°	29.6	70.4	120.8	153.0	163.1
95°	40.7	76.5	125.9	158.0	168.2
97.5°	51.9	84.6	134.1	164.5	174.3
100°	64.8	93.1	140.8	172.3	181.1
102.5°	78.8	106.2	149.8	180.3	189.4
105°	93.5	116.9	159.4	188.6	199.0
107.5°	109.7	130.3	171.2	199.2	207.3
110°	126.5	144.5	183.2	209.9	219.1

TEST NUMBER: P1027416

CATALOG NUMBER: S125DIP-B1090D375UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.1	158.0	195.7	220.4	229.0
115°	162.0	172.8	208.6	232.4	240.2
117.5°	179.1	186.3	220.7	244.0	251.9
120°	196.3	202.1	233.5	256.4	263.1
122.5°	213.5	215.2	246.0	267.1	274.1
125°	229.9	230.7	258.0	278.9	285.3
127.5°	246.8	246.5	269.8	289.6	297.0
130°	262.8	263.3	282.9	301.4	307.4
132.5°	277.6	280.8	293.9	312.4	316.7
135°	294.7	295.5	305.3	322.8	328.1
137.5°	310.8	311.5	317.6	334.2	337.8
140°	324.7	326.5	329.0	344.5	348.1
142.5°	340.1	340.2	341.6	354.1	357.7
145°	355.1	355.2	356.3	363.0	367.3
147.5°	367.7	368.8	369.5	373.3	373.1
150°	381.6	381.3	382.7	382.7	383.3
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)