

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: P1027462

Luminaire Tested: S125DIP-B1090D610UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027462
REPORT IS A COMBINATION OF REPORTS P1001437 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D610UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

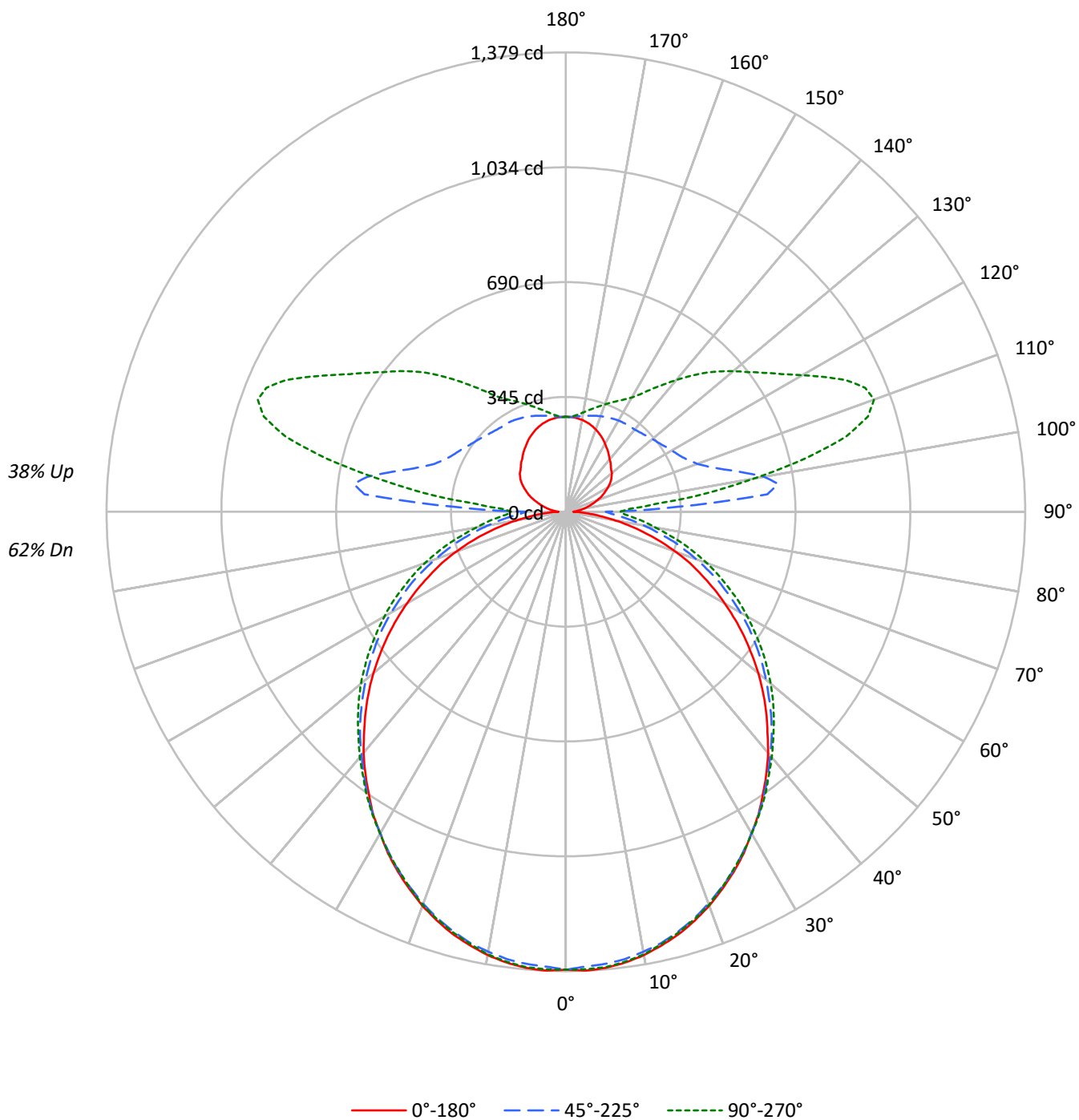
Lumens per Lamp: N/A
Luminaire Lumens: 6402.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68
1	100	95	91	87	93	89	85	82	78	75	72	68	66	64	58	57	55
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46
3	82	72	64	58	77	68	61	55	59	54	49	52	48	44	45	41	39
4	75	64	55	49	70	60	52	46	53	47	42	46	41	37	40	36	33
5	69	57	48	42	64	53	46	40	47	41	36	41	36	32	36	32	29
6	64	51	42	36	59	48	40	35	42	36	31	37	32	28	32	28	25
7	59	46	38	32	55	43	36	30	38	32	28	34	29	25	30	25	22
8	55	42	34	28	51	39	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	27	23	44	33	26	22	30	24	20	26	21	18	23	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.0
10°-20°	369.2	5.8
20°-30°	549.1	8.6
30°-40°	650.3	10.2
40°-50°	672.3	10.5
50°-60°	619.3	9.7
60°-70°	500.6	7.8
70°-80°	335.0	5.2
80°-90°	174.3	2.7
90°-100°	312.0	4.9
100°-110°	517.3	8.1
110°-120°	464.2	7.2
120°-130°	363.9	5.7
130°-140°	282.4	4.4
140°-150°	206.5	3.2
150°-160°	143.8	2.2
160°-170°	84.7	1.3
170°-180°	27.5	0.4
0°-30°	1048.4	16.4
0°-40°	1698.6	26.5
0°-60°	2990.2	46.7
0°-90°	4000.1	62.5
90°-120°	1293.5	20.2
90°-150°	2146.3	33.5
90°-180°	2402.0	37.5
0°-180°	6402.4	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	70	120	154	164	16
95°	36	109	607	359	272	34
105°	77	124	490	921	871	81
115°	124	157	387	797	932	122
125°	166	192	351	626	727	147
135°	191	228	329	509	590	148
145°	221	251	319	404	450	138
155°	250	269	311	352	367	115
165°	273	281	298	317	322	77
175°	284	284	286	290	289	27
180°	285	285	285	285	285	

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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°	22.2	69.9	119.7	153.6	164.1
92.5°	27.5	105.0	334.2	196.0	186.7
95°	36.4	108.6	607.1	358.8	272.4
97.5°	45.5	109.0	642.4	538.2	426.4
100°	55.0	112.6	604.6	703.6	570.4
102.5°	65.7	118.6	544.8	842.7	733.7
105°	77.0	124.4	490.3	920.6	871.2
107.5°	87.7	132.1	449.3	939.1	950.6
110°	99.5	140.4	420.4	909.6	984.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.7	148.8	401.2	855.6	972.9
115°	124.1	157.3	386.7	797.0	932.3
117.5°	134.2	166.2	376.2	742.1	875.8
120°	145.6	175.9	367.3	696.2	819.7
122.5°	156.4	183.8	359.1	657.0	769.3
125°	166.2	192.3	351.4	625.6	727.0
127.5°	172.8	202.0	344.8	596.4	688.9
130°	180.3	212.2	339.7	568.3	656.3
132.5°	184.7	221.4	334.3	538.5	623.7
135°	191.0	227.8	328.9	508.6	589.6
137.5°	199.1	235.0	325.3	478.8	553.0
140°	204.5	241.0	321.9	451.0	516.1
142.5°	212.6	245.4	319.8	426.4	481.4
145°	220.6	251.2	319.2	404.2	449.6
147.5°	227.9	256.4	318.1	386.0	419.3
150°	235.4	261.0	316.3	371.5	396.3
152.5°	243.4	265.5	314.0	361.4	380.1
155°	250.3	269.2	311.2	351.6	366.9
157.5°	256.6	273.0	308.3	342.4	354.8
160°	262.9	275.9	305.4	333.3	342.8
162.5°	268.1	278.7	302.0	325.0	331.8
165°	273.3	280.8	298.5	316.6	321.5
167.5°	276.7	281.8	295.1	308.8	311.7
170°	280.2	283.4	292.2	301.4	303.1
172.5°	282.5	283.9	288.8	295.4	295.1
175°	284.2	284.2	286.5	289.9	288.8
177.5°	285.3	284.2	284.8	286.5	284.8
180°	284.8	284.8	284.8	284.8	284.8

(END OF REPORT)