

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: P1027415

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027415
REPORT IS A COMBINATION OF REPORTS P1001375 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-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

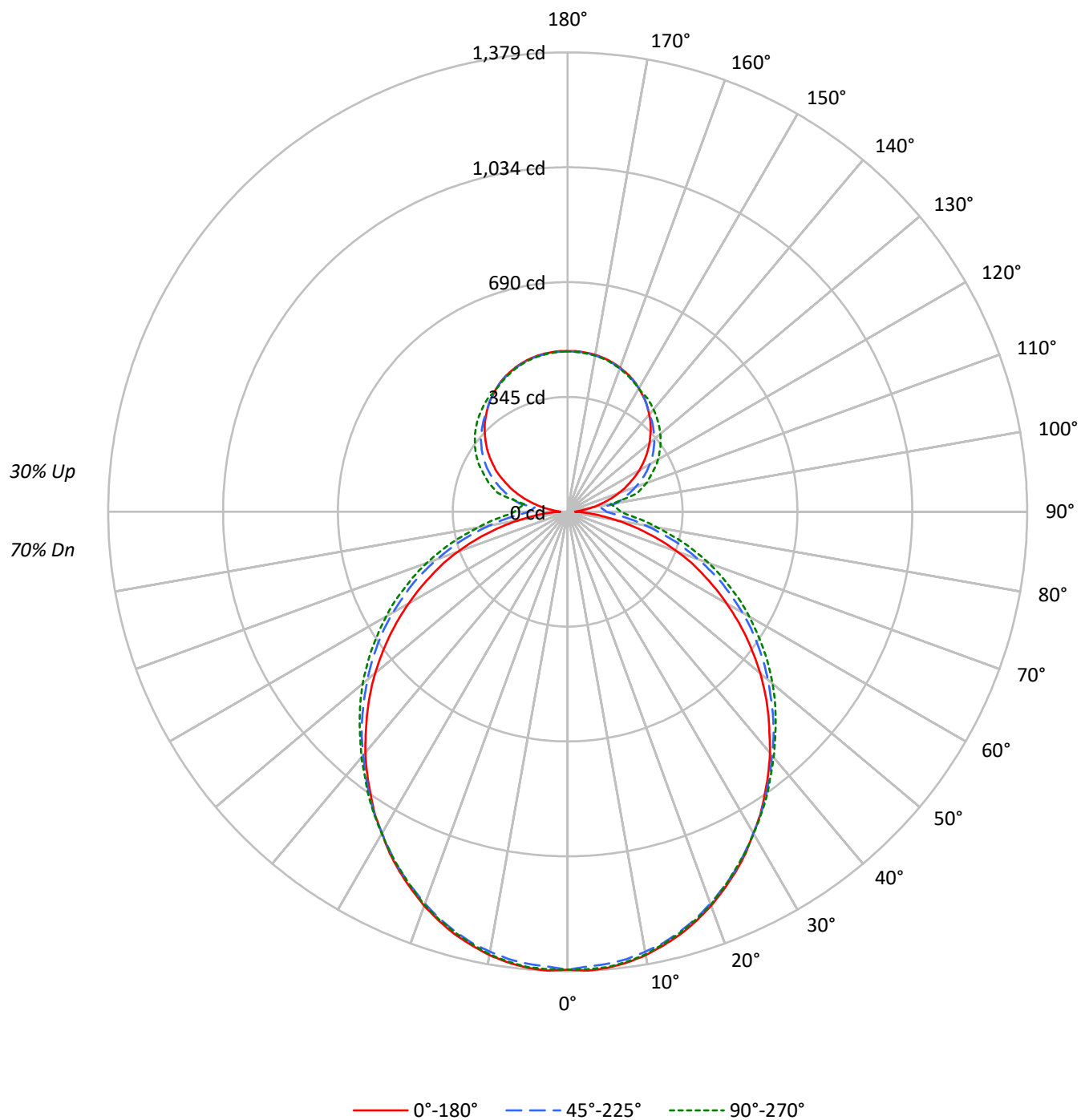
Lumens per Lamp: N/A
Luminaire Lumens: 5739.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	92	88	95	91	87	84	81	78	75	72	70	68	64	62	61
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	50
3	83	73	65	59	78	69	62	56	62	56	51	55	51	47	49	45	42
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	36
5	70	58	49	42	66	55	47	41	49	43	38	44	39	34	39	35	31
6	65	52	43	37	61	49	41	35	44	38	33	40	34	30	36	31	28
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	32	28	24
8	55	42	34	29	52	40	33	28	37	30	26	33	28	24	30	25	22
9	52	39	31	26	49	37	30	25	34	27	23	31	25	21	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	19	26	21	18

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	2.3
10°-20°	369.2	6.4
20°-30°	549.1	9.6
30°-40°	650.3	11.3
40°-50°	672.3	11.7
50°-60°	619.3	10.8
60°-70°	500.6	8.7
70°-80°	335.0	5.8
80°-90°	173.9	3.0
90°-100°	113.9	2.0
100°-110°	180.7	3.1
110°-120°	244.0	4.3
120°-130°	278.6	4.9
130°-140°	282.3	4.9
140°-150°	256.1	4.5
150°-160°	205.3	3.6
160°-170°	132.7	2.3
170°-180°	45.8	0.8
0°-30°	1048.4	18.3
0°-40°	1698.6	29.6
0°-60°	2990.2	52.1
0°-90°	3999.6	69.7
90°-120°	538.5	9.4
90°-150°	1355.6	23.6
90°-180°	1739.0	30.3
0°-180°	5739.0	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	16
95°	38	72	104	136	145	39
105°	117	140	181	208	217	124
115°	205	216	252	275	281	203
125°	286	287	314	334	340	255
135°	352	353	362	379	383	272
145°	407	406	406	413	416	254
155°	446	444	445	446	443	206
165°	471	469	469	472	469	133
175°	482	480	480	483	480	46
180°	482	482	482	482	482	

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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°	22.0	67.9	116.2	149.0	159.5
92.5°	25.7	61.5	110.8	142.3	152.1
95°	37.9	71.9	104.1	135.5	145.0
97.5°	54.4	88.9	99.4	128.4	138.2
100°	74.5	103.8	148.4	123.4	130.1
102.5°	94.9	122.0	164.5	192.1	170.2
105°	117.1	140.2	180.6	207.6	216.6
107.5°	140.1	158.9	198.7	226.1	232.8
110°	162.3	178.5	216.9	241.4	251.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.4	197.7	234.4	257.2	265.9
115°	205.3	216.5	251.9	274.7	280.7
117.5°	227.1	233.9	269.0	289.8	298.5
120°	248.5	252.3	284.4	306.5	312.9
122.5°	266.2	269.3	299.3	320.1	326.1
125°	285.8	286.9	313.9	334.1	339.7
127.5°	303.4	303.8	326.4	345.9	351.1
130°	320.5	321.0	340.2	358.0	363.0
132.5°	336.3	338.5	350.9	369.7	373.3
135°	352.4	353.2	362.0	378.7	383.3
137.5°	367.4	368.2	372.9	389.1	392.7
140°	380.7	381.4	382.4	397.9	401.2
142.5°	393.9	392.9	393.7	405.8	409.0
145°	406.8	406.2	406.2	413.2	416.5
147.5°	416.9	416.9	417.2	420.3	420.5
150°	427.6	426.9	427.6	428.3	426.8
152.5°	438.0	436.2	436.9	437.6	435.1
155°	446.5	444.4	445.1	446.2	443.3
157.5°	453.3	452.2	452.2	453.3	450.5
160°	460.5	458.3	458.7	460.1	457.2
162.5°	466.2	464.0	464.4	466.5	463.3
165°	471.2	469.0	469.4	471.5	468.7
167.5°	475.1	473.0	473.3	475.8	472.6
170°	478.3	475.8	476.2	479.0	475.8
172.5°	480.5	478.0	478.7	481.2	478.0
175°	481.9	479.8	480.1	483.0	479.8
177.5°	483.0	480.8	481.2	483.7	480.8
180°	481.9	481.9	481.9	481.9	481.9

(END OF REPORT)