

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: P1027406

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027406
REPORT IS A COMBINATION OF REPORTS P1001366 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-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

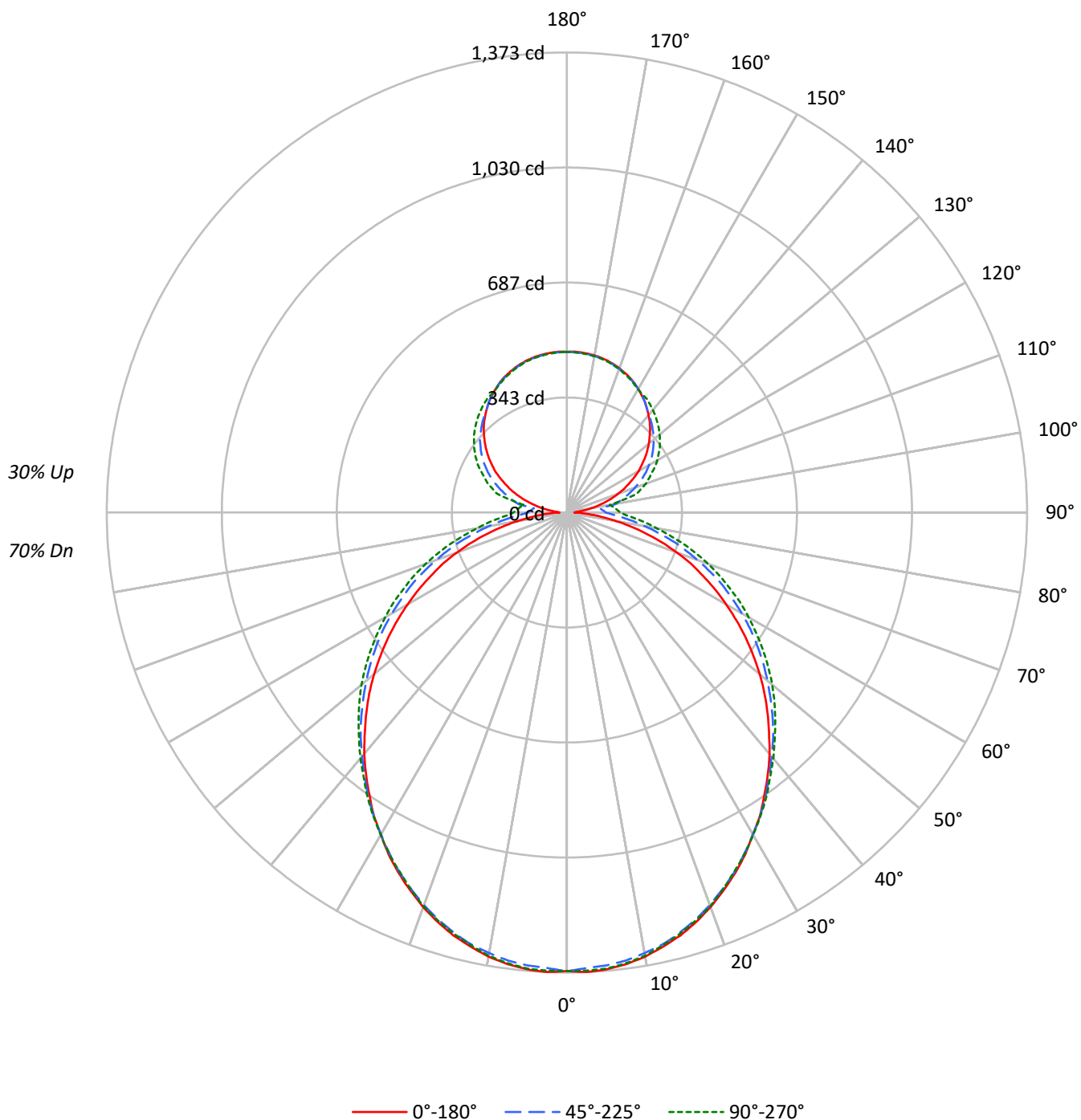
Lumens per Lamp: N/A
Luminaire Lumens: 5714.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
Input Current (A_{in}): 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	35	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°	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	6.4
20°-30°	546.7	9.6
30°-40°	647.5	11.3
40°-50°	669.4	11.7
50°-60°	616.7	10.8
60°-70°	498.5	8.7
70°-80°	333.6	5.8
80°-90°	173.1	3.0
90°-100°	113.4	2.0
100°-110°	179.8	3.1
110°-120°	242.9	4.3
120°-130°	277.3	4.9
130°-140°	281.0	4.9
140°-150°	254.9	4.5
150°-160°	204.3	3.6
160°-170°	132.1	2.3
170°-180°	45.6	0.8
0°-30°	1043.9	18.3
0°-40°	1691.5	29.6
0°-60°	2977.5	52.1
0°-90°	3982.7	69.7
90°-120°	536.1	9.4
90°-150°	1349.3	23.6
90°-180°	1731.0	30.3
0°-180°	5714.0	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°	38	72	104	135	144	39
105°	117	139	180	206	216	124
115°	204	215	251	274	279	203
125°	284	286	312	332	338	254
135°	351	352	360	377	382	270
145°	405	404	404	411	415	253
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

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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°	25.6	61.3	110.4	141.7	151.4
95°	37.7	71.5	103.7	135.0	144.4
97.5°	54.1	88.5	99.0	127.9	137.7
100°	74.2	103.3	147.8	123.0	129.6
102.5°	94.5	121.4	163.7	191.2	169.4
105°	116.6	139.4	179.7	206.5	215.6
107.5°	139.4	158.2	197.8	225.1	231.6
110°	161.6	177.7	216.0	240.4	250.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.6	196.8	233.3	256.1	264.7
115°	204.4	215.4	250.7	273.5	279.3
117.5°	226.1	232.8	267.8	288.5	297.1
120°	247.4	251.0	283.0	305.1	311.4
122.5°	264.9	268.0	297.9	318.7	324.6
125°	284.5	285.6	312.5	332.5	338.1
127.5°	301.9	302.4	324.9	344.3	349.5
130°	319.0	319.5	338.6	356.4	361.3
132.5°	334.8	336.9	349.2	368.0	371.7
135°	350.8	351.5	360.2	377.0	381.5
137.5°	365.7	366.4	371.1	387.2	390.8
140°	378.9	379.6	380.6	396.0	399.3
142.5°	392.0	391.1	391.8	403.9	407.1
145°	404.8	404.2	404.2	411.3	414.6
147.5°	414.9	414.9	415.3	418.3	418.5
150°	425.6	424.9	425.6	426.3	424.7
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)