

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: P1027426

Luminaire Tested: S125DIP-B1090D375UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027426
REPORT IS A COMBINATION OF REPORTS P1001386 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB40-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

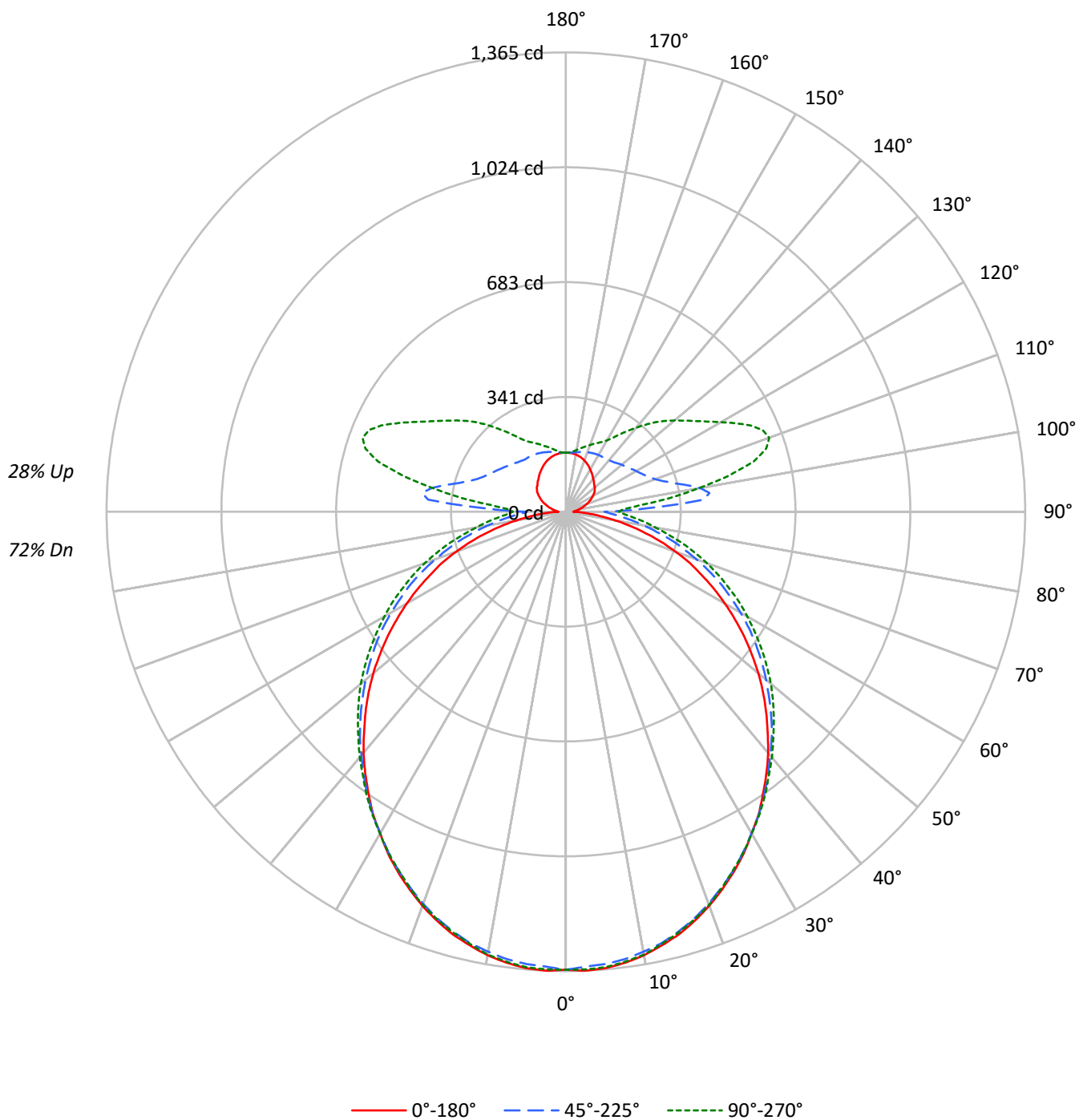
Lumens per Lamp: N/A
Luminaire Lumens: 5536.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	95	95	95	85	85	85	76	76	76
1	102	97	92	88	96	92	88	84	82	79	76	73	71	69	65	64	62
2	92	84	77	71	87	80	73	68	71	67	62	64	60	57	57	54	51
3	84	73	65	59	79	70	62	57	63	57	52	56	52	48	50	46	43
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	39	35	40	36	32
6	65	52	43	37	61	49	41	36	45	38	33	40	35	31	36	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	30	26	22
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	22	31	25	21	29	23	20	26	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.3
10°-20°	365.6	6.6
20°-30°	543.6	9.8
30°-40°	643.8	11.6
40°-50°	665.6	12.0
50°-60°	613.2	11.1
60°-70°	495.7	9.0
70°-80°	331.7	6.0
80°-90°	172.1	3.1
90°-100°	228.6	4.1
100°-110°	345.5	6.2
110°-120°	303.9	5.5
120°-130°	234.3	4.2
130°-140°	178.4	3.2
140°-150°	128.1	2.3
150°-160°	88.5	1.6
160°-170°	52.2	0.9
170°-180°	17.0	0.3
0°-30°	1038.0	18.7
0°-40°	1681.9	30.4
0°-60°	2960.7	53.5
0°-90°	3960.1	71.5
90°-120°	878.0	15.9
90°-150°	1418.9	25.6
90°-180°	1577.0	28.5
0°-180°	5536.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	67	115	148	158	16
95°	29	86	411	269	219	26
105°	52	89	330	605	578	55
115°	79	103	258	520	606	78
125°	104	120	228	405	470	92
135°	119	141	207	324	376	92
145°	136	155	197	252	281	85
155°	154	166	192	217	226	71
165°	168	173	184	195	198	47
175°	175	175	176	179	178	17
180°	175	175	175	175	175	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	21.7	67.2	115.1	147.5	157.5
92.5°	24.0	86.4	245.2	171.0	169.0
95°	29.0	86.4	410.7	269.0	219.2
97.5°	34.0	85.3	430.5	376.8	311.5
100°	39.5	85.5	404.7	476.2	397.2
102.5°	45.5	87.6	365.8	559.3	495.2
105°	52.0	89.2	329.8	604.8	577.9
107.5°	58.1	92.5	302.4	614.2	624.3
110°	64.8	96.1	282.6	593.6	643.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.9	99.6	268.9	557.7	633.5
115°	79.4	103.4	257.8	519.7	606.0
117.5°	85.2	107.4	249.3	483.3	569.1
120°	92.3	112.4	241.9	453.0	532.1
122.5°	98.3	115.8	234.7	426.4	498.6
125°	104.3	120.0	228.0	404.9	469.9
127.5°	108.0	125.4	222.0	384.5	444.5
130°	112.6	131.8	217.2	365.1	421.9
132.5°	114.8	137.4	211.9	344.8	399.3
135°	118.7	140.8	206.6	323.8	376.3
137.5°	123.6	145.2	202.9	303.4	351.2
140°	126.5	149.0	199.3	284.2	326.4
142.5°	131.4	151.1	197.0	267.1	303.0
145°	136.4	154.7	196.6	251.6	281.4
147.5°	140.4	157.9	195.9	238.7	260.2
150°	145.0	160.7	194.8	228.8	244.6
152.5°	149.9	163.6	193.4	222.6	234.1
155°	154.2	165.9	191.6	216.6	225.9
157.5°	158.1	168.1	189.9	210.9	218.5
160°	161.9	169.9	188.1	205.2	211.1
162.5°	165.1	171.6	186.0	200.1	204.4
165°	168.3	172.9	183.9	195.0	198.0
167.5°	170.4	173.6	181.7	190.2	192.0
170°	172.6	174.5	180.0	185.6	186.7
172.5°	174.0	174.8	177.9	181.9	181.7
175°	175.0	175.0	176.4	178.6	177.9
177.5°	175.7	175.0	175.4	176.4	175.4
180°	175.4	175.4	175.4	175.4	175.4

(END OF REPORT)