

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: P1027417

Luminaire Tested: S125DIP-B1090D375UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027417
REPORT IS A COMBINATION OF REPORTS P1001377 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-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

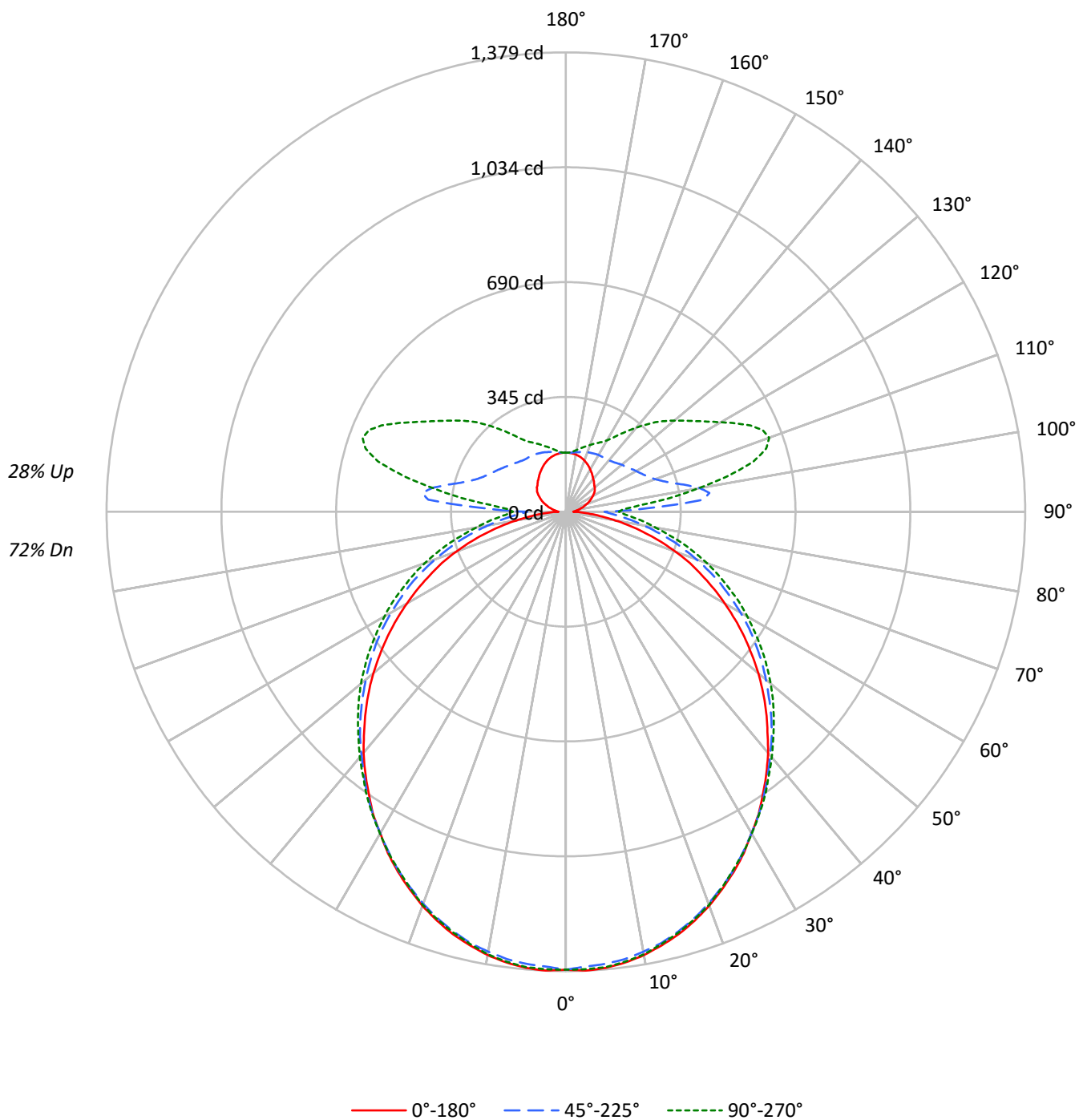
Lumens per Lamp: N/A
Luminaire Lumens: 5591.7 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95		85	85	85		76	76	76	72
1	102	97	92	88	96	92	88	84	82	79	76		73	71	69		65	64	62	58
2	92	84	77	71	87	80	73	68	71	67	62		64	60	57		57	54	51	48
3	84	73	65	59	79	70	62	57	63	57	52		56	52	48		50	46	43	40
4	77	65	56	50	72	62	54	48	56	49	44		50	45	41		45	41	37	34
5	70	58	49	43	66	55	47	41	50	43	38		45	39	35		40	36	32	29
6	65	52	43	37	61	49	41	36	45	38	33		40	35	31		36	32	28	26
7	60	47	38	32	57	45	37	31	41	34	29		37	31	27		33	29	25	23
8	56	43	34	29	53	41	33	28	37	31	26		34	28	24		30	26	22	20
9	52	39	31	26	49	37	30	25	34	28	23		31	26	22		28	24	20	18
10	49	36	28	23	46	34	27	22	31	25	21		29	23	20		26	22	18	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	2.3
10°-20°	369.2	6.6
20°-30°	549.1	9.8
30°-40°	650.3	11.6
40°-50°	672.3	12.0
50°-60°	619.3	11.1
60°-70°	500.6	9.0
70°-80°	335.0	6.0
80°-90°	173.9	3.1
90°-100°	230.9	4.1
100°-110°	348.9	6.2
110°-120°	306.9	5.5
120°-130°	236.6	4.2
130°-140°	180.1	3.2
140°-150°	129.3	2.3
150°-160°	89.4	1.6
160°-170°	52.7	0.9
170°-180°	17.1	0.3
0°-30°	1048.4	18.7
0°-40°	1698.6	30.4
0°-60°	2990.2	53.5
0°-90°	3999.6	71.5
90°-120°	886.7	15.9
90°-150°	1432.9	25.6
90°-180°	1592.0	28.5
0°-180°	5591.7	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	159	16
95°	29	87	415	272	221	26
105°	52	90	333	611	584	55
115°	80	104	260	525	612	79
125°	105	121	230	409	475	93
135°	120	142	209	327	380	93
145°	138	156	198	254	284	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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	68.0	116.2	149.0	159.1
92.5°	24.3	87.2	247.6	172.8	170.6
95°	29.3	87.4	414.8	271.6	221.4
97.5°	34.4	86.2	434.7	380.6	314.6
100°	39.8	86.4	408.6	480.8	401.1
102.5°	46.0	88.6	369.4	564.8	500.1
105°	52.5	90.1	333.0	610.8	583.6
107.5°	58.6	93.4	305.4	620.2	630.5
110°	65.5	97.0	285.4	599.4	649.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.7	100.7	271.4	563.2	639.7
115°	80.2	104.4	260.4	524.8	612.0
117.5°	86.0	108.5	251.8	488.1	574.8
120°	93.1	113.4	244.3	457.5	537.4
122.5°	99.3	116.8	237.1	430.6	503.4
125°	105.4	121.2	230.3	409.0	474.6
127.5°	109.0	126.6	224.1	388.3	448.8
130°	113.6	133.0	219.4	368.7	426.1
132.5°	115.9	138.8	214.0	348.2	403.2
135°	119.8	142.2	208.6	327.0	379.9
137.5°	124.8	146.6	204.9	306.4	354.7
140°	127.7	150.4	201.2	287.1	329.6
142.5°	132.7	152.6	198.9	269.8	306.0
145°	137.7	156.2	198.5	254.0	284.2
147.5°	141.8	159.4	197.8	241.0	262.9
150°	146.4	162.3	196.8	231.0	247.0
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)