

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: P1011351

Luminaire Tested: S123DIP-B1165D365UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011351
REPORT IS A COMBINATION OF REPORTS P989477 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D365UB35-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

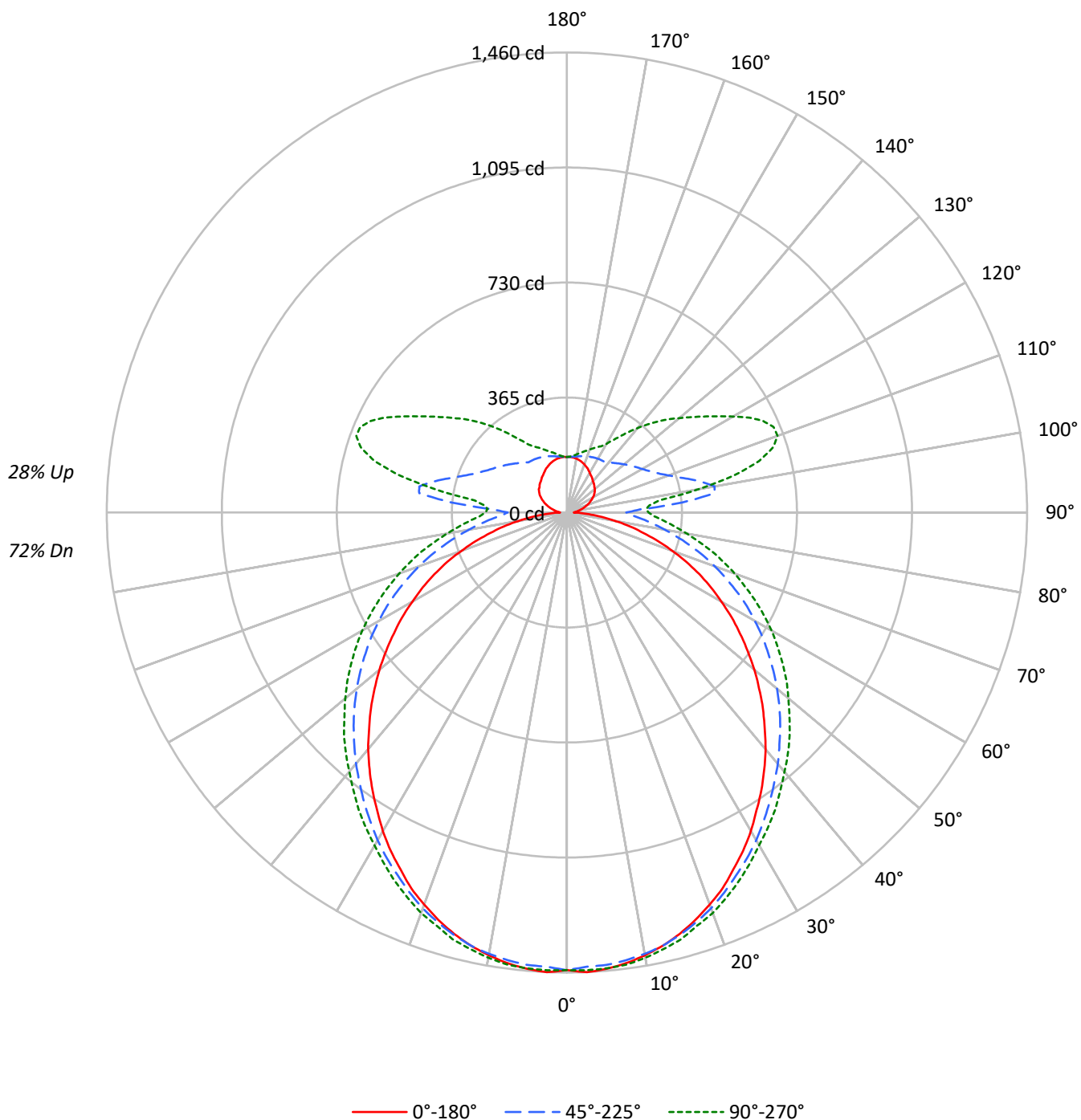
Lumens per Lamp: N/A
Luminaire Lumens: 6212.1 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	107	107	107	107	96	96	96	86	86	86	76	76	76
1	101	96	91	87	96	91	87	83	82	78	76	73	71	68	65	63	61
2	92	83	76	70	86	79	73	67	71	66	61	63	59	56	56	53	51
3	83	73	64	58	78	69	62	56	62	56	51	56	51	47	50	46	42
4	76	64	55	49	72	61	53	47	55	48	43	49	44	40	44	40	36
5	70	57	48	42	66	54	46	40	49	42	37	44	39	34	40	35	31
6	64	51	42	36	61	49	41	35	44	37	32	40	34	30	36	31	27
7	59	46	38	32	56	44	36	31	40	33	28	36	31	26	33	28	24
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	25	22
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20
10	48	35	28	23	46	34	27	22	31	25	20	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15632	15632	15632
5°	15675	15174	15162
10°	15529	14763	14650
15°	15323	14310	14108
20°	15032	13803	13526
25°	14672	13234	12922
30°	14306	12718	12317
35°	13893	12177	11822
40°	13500	11682	11301
45°	13063	11204	10872
50°	12632	10728	10406
55°	12154	10242	9976
60°	11687	9744	9537
65°	11204	9214	9022
70°	10484	8617	8492
75°	9567	7939	7945
80°	8502	7252	7320
85°	7444	6697	6873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	2.2
10°-20°	392.8	6.3
20°-30°	587.3	9.5
30°-40°	701.2	11.3
40°-50°	733.7	11.8
50°-60°	688.5	11.1
60°-70°	575.1	9.3
70°-80°	411.2	6.6
80°-90°	245.7	4.0
90°-100°	254.0	4.1
100°-110°	393.2	6.3
110°-120°	348.7	5.6
120°-130°	260.6	4.2
130°-140°	191.1	3.1
140°-150°	132.2	2.1
150°-160°	89.4	1.4
160°-170°	52.5	0.8
170°-180°	17.1	0.3
0°-30°	1117.9	18.0
0°-40°	1819.1	29.3
0°-60°	3241.3	52.2
0°-90°	4473.3	72.0
90°-120°	996.0	16.0
90°-150°	1579.8	25.4
90°-180°	1739.0	28.0
0°-180°	6212.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1454	1451	1441	1454	1452	138
15°	1384	1389	1388	1403	1402	390
25°	1250	1266	1270	1291	1291	576
35°	1076	1101	1122	1145	1152	673
45°	880	918	957	987	1000	678
55°	671	723	780	823	835	601
65°	464	525	595	642	658	458
75°	252	326	405	457	476	269
85°	78	157	240	294	310	80
90°	21	102	188	243	259	16
95°	30	119	368	268	263	26
105°	54	112	406	665	632	57
115°	81	118	303	603	687	81
125°	106	125	256	455	531	95
135°	122	144	221	353	409	95
145°	138	156	200	264	295	86
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.3	1452.3	1452.3	1452.3	1452.3
2.5°	1460.3	1455.5	1442.8	1455.5	1453.9
5°	1453.9	1450.8	1441.3	1453.9	1452.3
7.5°	1442.8	1442.8	1433.4	1449.2	1447.6
10°	1427.0	1430.2	1422.3	1438.1	1434.9
12.5°	1408.0	1412.8	1408.0	1422.3	1419.1
15°	1384.3	1389.1	1387.5	1403.3	1401.7
17.5°	1355.8	1365.3	1363.7	1378.0	1374.8
20°	1324.2	1333.7	1336.8	1351.1	1352.7
22.5°	1291.0	1300.5	1305.2	1324.2	1322.6
25°	1249.8	1265.7	1270.4	1291.0	1291.0
27.5°	1210.3	1227.7	1237.2	1254.6	1256.2
30°	1167.6	1188.1	1200.8	1219.8	1219.8
32.5°	1120.1	1143.8	1161.2	1181.8	1186.6
35°	1075.8	1101.1	1121.7	1145.4	1151.7
37.5°	1028.3	1056.8	1080.6	1107.4	1112.2
40°	980.9	1009.4	1041.0	1067.9	1074.2
42.5°	928.7	965.1	998.3	1028.3	1037.8
45°	879.6	917.6	957.2	987.2	999.9
47.5°	827.4	870.1	914.4	947.7	957.2
50°	776.8	821.1	870.1	906.5	917.6
52.5°	723.0	770.5	825.8	863.8	878.0
55°	670.8	723.0	780.0	822.7	835.3
57.5°	620.2	674.0	735.7	778.4	792.6
60°	566.4	623.3	688.2	732.5	749.9
62.5°	515.8	574.3	643.9	688.2	704.0
65°	463.5	525.2	594.9	642.3	658.1
67.5°	411.3	476.2	545.8	598.0	610.7
70°	356.0	424.0	499.9	550.6	566.4
72.5°	305.3	373.4	452.5	504.7	520.5
75°	251.5	325.9	405.0	457.2	476.2
77.5°	205.7	280.0	359.1	414.5	428.7
80°	156.6	234.1	316.4	370.2	386.0
82.5°	113.9	193.0	276.9	330.7	346.5
85°	77.5	156.6	240.5	294.3	310.1
87.5°	47.5	126.6	207.3	261.0	276.9
90°	21.3	102.4	187.7	242.6	258.8
92.5°	24.4	108.4	232.5	241.0	251.5
95°	29.5	118.6	368.4	267.5	262.9
97.5°	35.1	118.0	472.8	350.0	295.4
100°	40.6	114.8	475.8	508.4	423.2
102.5°	46.6	112.2	443.1	607.6	542.9
105°	54.1	111.8	405.8	665.2	631.5
107.5°	60.4	112.7	371.7	683.4	685.4
110°	67.4	113.7	343.4	674.9	711.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.2	115.0	320.4	643.6	709.5
115°	81.1	118.2	303.4	603.4	687.0
117.5°	88.6	119.4	288.0	561.0	652.5
120°	94.9	120.4	276.0	520.4	608.5
122.5°	101.7	122.9	265.6	486.5	568.3
125°	106.5	124.8	255.6	455.2	530.6
127.5°	111.5	129.8	246.6	428.0	496.8
130°	116.1	135.5	237.6	402.0	465.8
132.5°	118.2	140.6	229.4	377.2	438.2
135°	122.5	143.9	221.1	353.4	408.6
137.5°	126.4	147.8	214.1	328.9	379.4
140°	128.7	151.4	207.4	306.4	350.8
142.5°	133.0	153.0	200.3	283.5	322.1
145°	137.7	155.9	199.6	263.6	295.1
147.5°	140.7	158.9	198.6	246.2	272.2
150°	145.3	161.4	197.1	233.4	251.4
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)